

# STIC Search Report Biotech-Chem Library

# STIC Database Tracking Number: 184500

TO: Rei-Tsang Shiao

Location: REM-5A10&5C18

Art Unit: 1626

Monday, April 10, 2006

Case Serial Number: 10/792355

From: Paul Schulwitz

**Location: Biotech-Chem Library** 

**REM-1A65** 

Phone: 571-272-2527

Paul.schulwitz@uspto.gov

## Search Notes

Examiner Shiao,

Please review the attached search results.

If you have any questions or if you would like to refine the search query, please feel free to contact me at any time.

Thank you for using STIC search services!

Paul Schulwitz
Technical Information Specialist
REM-1A65
571-272-2527



## Scientific and Technical Information Center

SI	EARCH REQUEST	FORIVI	_
Requester's Full Name: Art Unit: 624 Phone Nu	mber: 1/2 0707 Se	er # : 79 Date: 705/2 crial Number: 70/792, 355	<u>,</u> 7
	ilbox #): Results Fo	ormat Preferred (circle): PAPER DIS	
To ensure an efficient and quality search, plea	se attach a copy of the cover sheet, cl	aims, and abstract or fill out the following:	
Title of Invention:	dpha cyle	Alga A	
Inventors (please provide full names):	preiffer &	rat,	
D. H. a Disaita Data			
Earliest Priority Date:		·	
elected species or structures, keywords, synonyn Define any terms that may have a special mean	is, acronyms, and registry numbers, and ing. Give examples or relevant citation		
appropriate serial number.		d, divisional, or issued patent numbers) along w	ith the
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STAFF USE ONLY	Type of Search  NA Sequence (#)	STNDialog	
Searcher:	AA Sequence (#)	Questel/Orbit Lexis/Nexis	:
Searcher Location:	Structure (#)	Westlaw WWW/Intern	iet
Date Searcher Picked Up:	Bibliographic	In-house sequence systems	
Date Completed:	·Litigation	CommercialOligomerScore/IInterferenceSPDIEncode	
Completed.	Fulltext	Other (specify)	



**Comments:** 

# STIC SEARCH RESULTS FEEDBACK FORM

Biotec	h-Chem	Librarv

Questions about the scope or the results of the search? Contact the searcher or contact:

Mary Hale, Information Branch Supervisor Remsen Bldg. 01 D86 571-272-2507

Voluntary Results Feedback Form
> I am an examiner in Workgroup: Example: 1610
> Relevant prior art found, search results used as follows:
☐ 102 rejection
☐ 103 rejection
☐ Cited as being of interest.
Helped examiner better understand the invention.
☐ Helped examiner better understand the state of the art in their technology.
Types of relevant prior art found:
☐ Foreign Patent(s)
<ul> <li>Non-Patent Literature         (journal articles, conference proceedings, new product announcements etc.)     </li> </ul>
> Relevant prior art <b>not found:</b>
Results verified the lack of relevant prior art (helped determine patentability).
☐ Results were not useful in determining patentability or understanding the invention.

Drop off or send completed forms to STIC-Biotech-Chem Library Remsen Eldg.



### => d his ful

(FILE 'HOME' ENTERED AT 10:16:57 ON 10 APR 2006)

	FILE	'REGISTRY'	ENTERED	AT	10:17:25	ON	10	APR	2006
L1		STR							

- L2 2 SEA SSS SAM L1
- D SCA
- L3 512 SEA SSS FUL L1
- L4 STR L1
- L5 3 SEA SUB=L3 SSS SAM L4 D SCAN
- L6 76 SEA SUB=L3 SSS FUL L4
- FILE 'HCAPLUS' ENTERED AT 10:25:58 ON 10 APR 2006 L7 929 SEA ABB=ON PLU=ON L6
- FILE 'REGISTRY' ENTERED AT 10:26:14 ON 10 APR 2006
- L8 STR L4
- L9 3 SEA SUB=L3 SSS SAM L8
- L10 57 SEA SUB=L3 SSS FUL L8
- FILE 'HCAPLUS' ENTERED AT 10:36:39 ON 10 APR 2006 L11 928 SEA ABB=ON PLU=ON L10
  - FILE 'REGISTRY' ENTERED AT 10:37:17 ON 10 APR 2006
- L12 STR
- L13 1 SEA SUB=L3 SSS SAM L12
  - D SCA
- L14 10 SEA SUB=L3 SSS FUL L12 D SCA
- FILE 'HCAPLUS' ENTERED AT 10:40:33 ON 10 APR 2006 L15 80 SEA ABB=ON PLU=ON L14
- FILE 'REGISTRY' ENTERED AT 10:40:45 ON 10 APR 2006 L16 4 SEA ABB=ON PLU=ON L14 AND NC<3 D SCA
- FILE 'HCAPLUS' ENTERED AT 10:42:02 ON 10 APR 2006 L17 80 SEA ABB=ON PLU=ON L16

## FILE HOME

## FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 APR 2006 HIGHEST RN 879722-24-4 DICTIONARY FILE UPDATES: 7 APR 2006 HIGHEST RN 879722-24-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 6, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*\*\*\*\*\*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

### FILE HCAPLUS

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FILE COVERS 1907 - 10 Apr 2006 VOL 144 ISS 16 FILE LAST UPDATED: 9 Apr 2006 (20060409/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> fil hcap FILE 'HCAPLUS' ENTERED AT 10:42:22 ON 10 APR 2006 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 10 Apr 2006 VOL 144 ISS 16 FILE LAST UPDATED: 9 Apr 2006 (20060409/ED) New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que L1 STR 12 0 10 11 21 23 Ak Ak 0 ~ NH~ C~ 14 15 16 17 18 19

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

20

NUMBER OF NODES IS 23

STEREO ATTRIBUTES: NONE

L3512 SEA FILE=REGISTRY SSS FUL L1

L12 STR

t-Bu~NH2 1 2

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS

STEREO ATTRIBUTES: NONE

10 SEA FILE=REGISTRY SUB=L3 SSS FUL L12 L14

L16 4 SEA FILE=REGISTRY ABB=ON PLU=ON L14 AND NC<3

L17 80 SEA FILE=HCAPLUS ABB=ON PLU=ON L16

=> d ll7 ibib abs hitstr 1-80

L17 ANSWER 1 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2006:218184 HCAPLUS

DOCUMENT NUMBER:

144:280633

TITLE:

Method for treatment of arterial hypertension by

administration of medicinal preparations in a

biorhythmical sequence

INVENTOR(S):

Malov, V. A.; Malova, E. V.

PATENT ASSIGNEE(S):

Russia

SOURCE:

Russ:, 16 pp. CODEN: RUXXE7

DOCUMENT TYPE:

Patent

LANGUAGE:

Russian

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.		DATE	APPLICATION NO.	DATE
	RU 2271197	C2	20060310	RU 2004-111759	20040419
PRIC	RITY APPLN. INFO.:			RU 2004-111759	20040419
AB	FIELD: medicine, th	erapy.	SUBSTANCE:	invention relates to a	method for
				lethod involves adminis	
				hmical sequence taken	
				ormwood tincture - at 7	
				logrel - at 9.00 - 11.0	
				11.15 a. m.; atenolol,	
				darone, valerian, moth	
				c) - at 1.00 p. m.; No	
				niazid, furosemide, ven	
				april, ramipril, losar	
				n.; trental - at 7.15 p	
				dedipine, verapamil, ca	
				cil, paxil - at 7.30 p.	
				, lovastatin - at 11.0	
				chronization in organi	
			,	carry out the effect or	i the arterial
	pressure value in t	the corr	esponding ti	me of day.	

IT **107133-36-8**, Prestarium

RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(method for treatment of arterial hypertension by administration of medicinal prepns. in a biorhythmical sequence)

RN 107133-36-8 HCAPLUS

1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-CN

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

NH<sub>2</sub> H<sub>3</sub>C-- С-- СН<sub>3</sub>

17 ANSWER 2 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2006:149722 HCAPLUS

DOCUMENT NUMBER:

144:205780

TITLE:

Combination therapy for diabetes, obesity and

cardiovascular diseases using growth differentiation

APPLICATION NO.

DATE

factor 8 (GDF-8) inhibitors

INVENTOR (S):

Tobin, James F.

PATENT ASSIGNEE(S):

Wyeth, John, and Brother Ltd., USA

SOURCE:

U.S. Pat. Appl. Publ., 51 pp.

CODEN: USXXCO

DATE

DOCUMENT TYPE:

Patent

LANGUAGE:

English

KIND

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

	TATENT NO.	KIND	DALB	AFFBICATION NO.	DATE
		A1	20060216	US 2005-201825	20050811
PRIO	RITY APPLN. INFO.:			US 2004-600784P	P 20040812
AB	A method of treatin	g obesi	ty, cardiova	scular diseases, and	disorders of
	insulin metabolism	in a su	bject, compr	ising administering	to the subject a
	therapeutically eff	ective	amount of a	growth differentiati	on factor 8
	(GDF-8, myostatin)	inhibit	or, and a th	erapeutically effect	ive amount of at
	least one other the	rapeuti	c agent whic	h treats the targete	d syndrome.
	GDF-8 inhibitors in	clude a	ntibodies (a	gainst GDF-8 and/or	a GDF-8
	receptor, such as a	ctivin	receptor typ	e IIB (ActRIIB)), mo	dified soluble
	receptors, other pr	oteins	(including t	hose that bind to GD	F-8 and/or a
	GDF-8 receptor), pr	opeptid	es, peptides	and mimetics of all	of these
	inhibitors. Other	therape	utic agents	listed in claimes an	d include
	insulin products, s	ulfonyl	ureas, bigua	nides, and thiazolid	inedione agents,
	antilipemic agents,	alpha-	glucosidase	inhibitors, PTPase (	protein tyrosine
	phosphatase) inhibi	tors, a	ldose reduct	ase inhibitors, and	angiotensin
	converting enzyme (	ACE) in	hibitors.		•
TO	107122 26 0 0		and the same of th	•	

IT 107133-36-8, Perindopril-tert-butylamine

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(ACE inhibitor; combination therapy for diabetes, obesity and cardiovascular diseases using growth differentiation factor 8 (GDF-8) inhibitors)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM

CRN 75-64-9

CMF C4 H11 N NH<sub>2</sub> - CH3 CH<sub>3</sub>

ANSWER 3 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2005:1311320 HCAPLUS

DOCUMENT NUMBER:

144:7101

TITLE:

. Method for synthesis of perindopril and its

pharmaceutically acceptable salts

INVENTOR(S):

Fugier, Claude; Dubuffet, Thierry; Langlois, Pascal

PATENT ASSIGNEE(S):

Adir et Compagnie, Fr.

SOURCE:

Eur. Pat. Appl., 9 pp. CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT	NO.			KIN	D ]	DATE			APPL	ICAT:	ION	NO.		D	ATE	
					-				<u>-</u>					_		
EP 136	7063			A1	:	20 <del>03</del>	1203	. ;	EP 2	003-	2919	31′		2	0030	731
, R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
	IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK	
CA 253	3005			AA		2005	0210		CA 2	004-	2533	005		2	0040	729
WO 200	50123	33		A2	:	2005	0210	1	WO -2	004-	FR20	35		2	0040	729
WO 200	50123	33		A3		2005	0324			,						
W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	ΒY,	ΒZ,	CA,	CH,
	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ',	EC,	EE,	EG,	ES,	FI,	GB,	GD,
	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,
							MA,									

NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

EP 2003-291931 A 20030731 WO 2004-FR2035 W 20040729

OTHER SOURCE(S):

MARPAT 144:7101

A method for the synthesis of perindopril [(2S,3aS,7aS)-1-[(2S)-2-[(1S)-1-(ethoxycarbonyl)butylamino]propionyl]octahydro-1H-indole-2-carboxylic acid] involves coupling of (2S)-hexahydroindole-2-carboxylic acid or its benzyl ester with (R)-G-CHMeCOCl (G = Cl, Br, OH, tosyloxy, mesyloxy or trifluoromethanesulfonyloxy) and then (S)-Et 2-aminopentanoate, followed by catalytic hydrogenation. In an example, the resp. coupling reactions were carried in CH2Cl2-EtNPr-i2 at room temperature and MeCN-Et3N at reflux. Yield of perindopril following hydrogenation was 95% (enantiomeric purity 99%).

IT 107133-36-8P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(synthesis of perindopril from hexahydroindolecarboxylate and bromopropionyl chloride)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

```
NH<sub>2</sub>
H3C-C-
       CH<sub>3</sub>
     CH<sub>3</sub>
REFERENCE COUNT:
                           3
                                 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
                                 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
                      HCAPLUS COPYRIGHT 2006 ACS on STN
     ANSWER 4 OF 80
                           2005:1311047 HCAPLUS
ACCESSION NUMBER:
                           144:7100
DOCUMENT NUMBER:
                          Method for synthesis of perindopril and its
TITLE:
                          pharmaceutically acceptable salts.
                           Fugier, Claude; Dubuffet, Thierry; Langlois, Pascal
INVENTOR (S):
                          Adir et Compagnie, Fr.
PATENT ASSIGNEE(S):
                           Eur. Pat. Appl., 9 pp.
SOURCE:
                           CODEN: EPXXDW
DOCUMENT TYPE:
                           Patent
                           French
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                          KIND
                                  DATE
                                               APPLICATION NO.
                                                                        DATE
                                               ______
     -----
                           ----
                                  -----
                                  20031203
                                             EP 2003-291930
                                                                        20030731
     EP 1367062
                           A1
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     AU 2004261440
                           A1
                                  20050210
                                               AU 2004-261440
                                                                        20040729
                            A2
                                  20050210
                                               WO 2004-FR2036
                                                                        20040729
     WO 2005012328
                           A3
                                 20050324
     WO 2005012328 ·
             AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
              GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
              LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
              NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
         TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
              EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
              SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
              SN, TD, TG
PRIORITY APPLN. INFO.:
                                              · EP 2003-291930
                                                                        20030731
                                                                     Α
                                               WO 2004-FR2036
                                                                     W
                                                                        20040729
OTHER SOURCE(S):
                           MARPAT 144:7100
     A method for the synthesis of perindopril [(2S,3aS,7aS)-1-[(2S)-2-[(1S)-1-
     (ethoxycarbonyl)butylamino]propionyl]octahydro-1H-indole-2-carboxylic
     acid] involves coupling of (2S)-hexahydroindole-2-carboxylic acid or its
     benzyl ester with (R)-G-CHMeCOCl (G = Cl, Br, OH, tosyloxy, mesyloxy or
     trifluoromethanesulfonyloxy) and then (S)-Et 2-aminopentanoate, followed
     by catalytic hydrogenation. In an example, the resp. coupling reactions
     were carried in CH2Cl2-EtNPr-i2 at room temperature and MeCN-Et3N at reflux.
     Yield of perindopril following hydrogenation was 95% (enantiomeric purity
     99%).
     107133-36-8P, Perindopril erbumine
IT
```

(synthesis of perindopril from hexahydroindolecarboxylate and

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP

(Preparation)

bromopropionyl chloride)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.

with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 5 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2005:1262577 HCAPLUS

DOCUMENT NUMBER:

144:7098 ·

TITLE:

Process for the preparation of perindopril and its

salts

INVENTOR(S):

Merslavic, Marjo; Smid, Janja; Tomsic, Zdenka Krka, Tovarna Zdravil D.D. Novo Mesto, Slovenia

PATENT ASSIGNEE(S): SOURCE:

PCT Int. Appl., 19 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005113500	A1	20051201	WO 2005-EP5048	20050510

```
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
              CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
              GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR,
              LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ,
              NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
              ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
              AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
              EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
              RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
              MR, NE, SN, TD, TG
                                                SI 2004-143
                                                                          20040514 '
                                   20051231
     SI 21800
                            C
                                   20060228
                                                SI 2004-235
                                                                          20040805
     SI 21852
                            C
                                                SI 2004-143
                                                                         20040514
PRIORITY APPLN. INFO.:
                                                                      Α
                                                                         20040805
                                                SI 2004-235
                                                                      Α
                           MARPAT 144:7098
OTHER SOURCE(S):
```

The invention relates to a process for the preparation of the ACE inhibitor perindopril, its pharmaceutically-acceptable salts and intermediates obtained in the process. The process involves conversion of N-[(1S)-1-carbethoxybutyl]-L-alanine to the acid chloride hydrochloride and reaction with (2S,3aS,7aS)-octahydroindole-2-carboxylic acid or a an ester or salt. The examples describe the synthesis of perindopril erbumine by reactions carried out in CH2Cl2.

IT 107133-36-8P, Perindopril erbumine

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(process for preparation of perindopril and its salts)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

```
NH_2
H3C-C-CH3
    CH<sub>3</sub>
REFERENCE COUNT:
                         2
                               THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L17 ANSWER 6 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
                         2005:1201076 HCAPLUS
DOCUMENT NUMBER:
                         143:446810
TITLE:
                         Processes for the preparation of alpha polymorph of
                         perindopril erbumine
INVENTOR(S):
                         Joshi, Narendra Shriram; Bhirud, Shekhar Bhaskar; Rao,
                         Kodali Eswara
PATENT ASSIGNEE(S):
                         Glenmark Pharmaceuticals Limited, India
                        U.S. Pat. Appl. Publ., 8 pp.
SOURCE:
                         CODEN: USXXCO
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
    PATENT NO.
                        KIND
                               DATE
                                           APPLICATION NO.
                                -----
                                           -----
    US 2005250706 .
                         A1
                               20051110
                                           US 2005-122731
                                                                  20050505
                                           WO 2005-IB1233
    WO 2005108365
                        A1
                               20051117
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
            CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
            GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,
            LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,
            NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,
            SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
            ZM, ZW
        RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
            AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
            EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
            RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
            MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                           IN 2004-MU531
                                                               A 20040507
                                                               P 20040519
                                           US 2004-572402P
OTHER SOURCE(S):
                        MARPAT 143:446810
    A process for the preparation of an alpha polymorph of perindopril erbumine is
    provided comprising (a) forming a solution comprising perindopril erbumine in
    one or more ketones; (b) heating the solution to reflux; and (c) cooling the
    solution to a temperature sufficient to form the alpha polymorph of perindopril
    erbumine. The alpha polymorphs of perindopril erbumine obtained herein
    have a high purity level.
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107133-36-8P, Perindopril erbumine IT

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

(of perindopril erbumine  $\alpha$ -polymorph)

RN 107133-36-8 HCAPLUS

1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-CN

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.

with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

.CM 2

CRN 75-64-9 CMF C4 H11 N

L17 ANSWER 7 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2005:1146100 HCAPLUS

DOCUMENT NUMBER:

143:420385

TITLE:

Development of efficient genotyping method for

detecting insertion/deletion type polymorphisms of

human angiotensin converting enzyme gene

INVENTOR(S):

Katsutani, Tomohiro; Sugimoto, Ken; Akasaka, Tadashi;

Ogiwara, Toshio

PATENT ASSIGNEE(S):

EBS K. K., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005295938	A2	20051027	JP 2004-119417	20040414
PRIORITY APPLN. INFO.:		•	JP 2004-119417	20040414

AB An efficient genotyping method for detecting insertion/deletion type polymorphism of human angiotensin converting enzyme gene. The method is designed to detect the polymorphisms in the extracted genomic DNA samples by the real time PCR using the specifically designed primers and probes with

fluorometric (FRET) detection. The ACE gene polymorphism anal. is especially established for diagnostic prediction of the genetic susceptibility to cardiac infarction, cardiac hypertrophy, diabetic nephropathy, IgA nephropathy or purpura nephritis. The ACE genotypes are classified into the DD, ID and II types and the order of the susceptibility to the above mentioned diseases is DD > ID > II. The genotyping method is also applied to predict the effectiveness of the ACE inhibitors in the therapy of hypertension. The order of the effectiveness of the ACE inhibitors is DD > ID > II. The ACE inhibitors that can be subjected to this effectiveness prediction test are alacepril, imidapril hydrochloride, quinapril hydrochloride, temocapril hydrochloride, delapril hydrochloride, benazepril hydrochloride, captopril, trandolapril, perindopril erbumine, enalapril maleate, lisinopril, lactotripeptide and the peptides from dried bonito or sardine.

IT 107133-36-8, Perindopril erbumine

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (effectiveness dependent on genotype; development of efficient genotyping method for detecting insertion/deletion type polymorphisms of human angiotensin converting enzyme gene)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

```
ACCESSION NUMBER:
                          2005:1117891 HCAPLUS
DOCUMENT NUMBER:
                          143:367597
                          Process for the preparation of perindopril
TITLE:
                          Kankan, Rajendra Narayanrao; Rao, Dharmaraj
INVENTOR (S):
                          Ramachandra
                          Neopharma Limited, UK
PATENT ASSIGNEE(S):
SOURCE:
                          Brit. UK Pat. Appl., 21 pp.
                          CODEN: BAXXDU
DOCUMENT TYPE:
                          Patent
LANGUAGE:
                          English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                          KIND
                                 DATE
                                              APPLICATION NO.
     _____
                          ----
                                 _____
                                              GB 2004-8258
                                 20051019
                                                                       20040413
     GB 2413128
                          A1
                                 20051027
                                             WO 2005-GB1355
                                                                       20050407
     WO 2005100317
                          A1
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,
             NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL,
             SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
             ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
             RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
             MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                              GB 2004-8258
                                                                  A 20040413
OTHER SOURCE(S):
                          MARPAT 143:367597
     A process for preparing perindopril or a pharmaceutically-acceptable salt
     comprises coupling a 4-halo-, 4-alkoxy- or 4-nitrobenzyl ester of
     (2S, 3aS, 7aS) -2-carboxyoctahydroindole with N-[(S)-1-carbethoxybutyl]-L-
     alanine (1) in the presence of DCC and HOBT, followed by catalytic
     hydrolgenolysis. The starting ester was obtained from
     (S)-indoline-2-carboxylic acid by hydrogenation-esterification and 1 was
     obtained from norvaline Et ester and pyruvic acid under catalytic
     hydrogenation conditions. The method was applied to the synthesis
     perindopril erbumine (20.5 g obtained from 24 g 4-chlorobenzyl ester and
     21.26 g 1).
ΤÏ
     107133-36-8P, Perindopril erbumine
     RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
     (Preparation)
        (preparation of perindopril by acylation of octahydroindolecarboxylates with
        ethoxycarbonylbutylalanine)
     107133-36-8 HCAPLUS
RN
CN
     1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-
     (ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.
     with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)
     CM
          1
     CRN
          82834-16-0
```

Absolute stereochemistry. Rotation (-).

C19 H32 N2 O5

CMF

CM 2

CRN 75-64-9 CMF C4 H11 N

NH<sub>2</sub> | H<sub>3</sub>C-C-CH<sub>3</sub> | CH<sub>3</sub>

REFERENCE COUNT:

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

7 ANSWER 9 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

5

ACCESSION NUMBER:

2005:1103553 HCAPLUS

DOCUMENT NUMBER:

143:373364

TITLE:

Process for preparing a solid pharmaceutical

composition of perindopril

INVENTOR(S):

Klobcar, Iztok; Puncuh-Kolar, Alesa; Grandovec, Anica;

Turk, Urska; Solmajer-Lampic, Polona

PATENT ASSIGNEE(S):

Krka, Tovarna Zdravil D.D. Novo Mesto, Slovenia

SOURCE: PCT Int. Appl., 17 pp.

DOCUMENT TYPE:

CODEN: PIXXD2 Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	TENT	NO.			KIN	<b>D</b> 1	DATE			APPL	ICAT	ION I	NO.		Di	ATE		
						-					- <b></b>				_			
WO	2005	0947	93		A1		2005	1013		WO 2	005-	EP32	77		2	0050	329	
	₩:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	B₩,	BY,	BZ,	CA,	CH,	
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	KZ,	LC,	
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,	
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SM,	
		SY,	ТJ,	TM,	TN,	TR,	TT,	TZ,	·UΑ,	UG,	US,	UΖ,	VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:	BW,	GH,	GM,	ΚE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	
		ΑZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	
		EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IS,	IT,	LT,	LU,	MC,	NL,	PL,	PT,	
		RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	
		MR,	ΝE,	SN,	TD,	TG												
DE	1020	0401	9845		A1	:	2005	1020		DE 2	004-	1020	0401	9845	20	0040	329	

PRIORITY APPLN. INFO.:

DE 2004-102004019845A DE 2004-102004059521A

The invention relates to a process for preparing a solid pharmaceutical AB composition of perindopril or a salt thereof which avoids a wet granulation step and results in very stable pharmaceutical compns., like tablets. A composition also comprises indapamide. For example, tablets were prepared by compression of a dry mixture comprising perindopril erbumine 4 mg, indapamide 1.25 mg, microcryst. cellulose 22.50 mg, lactose monohydrate 71.03 mg, sodium bicarbonate 0.50 mg, colloidal silica 0.27 mg, and magnesium stearate 0.45 mg.

107133-36-8, Perindopril erbumine TΤ

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (perindopril solid compns. comprising carbonate stabilizer)

RN107133-36-8 HCAPLUS

1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-CN (ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 C19 H32 N2 O5 CMF

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS 3 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

HCAPLUS COPYRIGHT 2006 ACS on STN ANSWER 10 OF 80 L17

ACCESSION NUMBER: DOCUMENT NUMBER:

2005:729537 HCAPLUS

143:211920

TITLE:

Preparation of diacylglycerol acyltransferase (DGAT1) inhibitors as anorectics.

INVENTOR(S):

Ogawa, Nobuya; Okuma, Chihiro; Furukawa, Noboru

PATENT ASSIGNEE(S): Japan Tobacco Inc., Japan; Amgen Sf, Llc

SOURCE:

PCT Int. Appl., 90 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	rent :	NO.			KIN	D :	DATE		i	APPL	ICAT:	ION 1	NO.		D	ATE	
WO	2005	 0727	40		A2	-	 2005	 0811	1	WO 2	005-i	JP16	43		2	0050	128
WO	2005	0727	40		<b>A</b> 3		2005	1027									
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
																GB,	
		GE,													-	-	
																NA,	
																SL,	
															-	ZM,	
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
		AZ,	BY,	KG,	KZ,	MD,	RU,	ТJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
																PL,	
		RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,
		MR,	NE,	SN,	TD,	TG											
PRIORIT	APP	LN.	INFO	. :						JP 2	004-3	2481	2		A 2	0040	130
									1	US 2	004-	5980	37P	]	P 20	0040	802
	ATTITED COURSE (a)																

OTHER SOURCE(S):

MARPAT 143:211920

GI

· AB Claimed are anorectics comprising as active ingredients compds. having DGAT inhibitory activity (DGAT1 inhibitory activity) or a prodrugs or a pharmaceutically acceptable salts thereof. Thus, title compound (I) (preparation

Ι

given) at 10 mg/kg orally in rats gave a 30% reduction in food consumption after 8 h.

IT 107133-36-8, Perindopril erbumine

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (preparation of diacylglycerol acyltransferase (DGAT1) inhibitors as anorectics)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

H<sub>3</sub>C C-CH<sub>3</sub>

17 ANSWER 11 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2005:698368 HCAPLUS

DOCUMENT NUMBER:

143:173145

TITLE:

Preparation of perindopril

INVENTOR(S):

Bhirud, Shekhar Bhaskar; Ahmed, Suhail; Chandrasekhar,

Batchu; Purushotham, Vandanapu Loka Appala

PATENT ASSIGNEE(S):

SOURCE:

U.S. Pat. Appl. Publ., 7 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

India

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 2005171165	A1	20050804	US 2004-985097		20041110
PRIORITY APPLN. INFO.:	,	20030001	IN 2003-MU1179	Α	20031112
			US ·2004-569041P	P	20040507
OTHER SOURCE(S):	CASREA	CT 143:17314	15		

GI

AB A process for preparing a novel intermediate, oxathiazolidinedione I, in the preparation of perindopril is provided. Thus, reacting thionyl chloride in CH2Cl2 with imidazole and N-1(S)-(carboxyethyl)butyl-(S)-alanine gave I. Also provided are improved processes for the preparation of perindopril erbumine comprising (a) reacting I with a silylated octahydroindole-1H-2-carboxylic acid II to form perindopril; and (b) reacting perindopril with tert-butylamine to form perindopril erbumine.

IT 107133-36-8P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(preparation of perindopril and perindopril erbumine)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9. CMF C4 H11 N

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HCAPLUS COPYRIGHT 2006 ACS on STN
L17
     ANSWER 12 OF 80
                            2005:673315 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                           143:159626
TITLE:
                           Inclusion complexes of perindopril
                           Rucman, Rudolf
INVENTOR(S):
                           LEK Pharmaceuticals D.D., Slovenia
PATENT ASSIGNEE(S):
SOURCE:
                           PCT Int. Appl., 37 pp.
                           CODEN: PIXXD2
DOCUMENT TYPE:
                           Patent
                           English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                                         DATE
     PATENT NO.
                           KIND
                                   DATE
                                                APPLICATION NO.
                                                -----
                            _ _ _ _
                                   -----
                                   20050728
     WO 2005068490
                                                WO 2005-EP282
                                                                          20050113
                            A1
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
              CN, CÒ, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
              GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
              NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
          TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
              EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
              RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
              MR, NE, SN, TD, TG
                            C.
                                   20050831
                                                 SI 2004-11
     SI 21703
                                                                          20040114
PRIORITY APPLN. INFO.:
                                                 SI 2004-11
                                                                       A 20040114
     Complexes of the ACE-inhibitor perindopril, a salt, an addition salt or a
     derivative thereof with cyclodextrins, polyvinylpyrrolidone or hydroxypropyl
     cellulose, and processes for their preparation are described. E.g., complexes
     of perindopril erbumine with \beta-cyclodextrin and Me and hydroxypropyl
     \beta-cyclodextrins were prepared
TT
     107133-36-8DP, Perindopril erbumine, compds., with hydroxypropyl
     and Me cyclodextrins
     RL: PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
         (inclusion complexes of perindopril)
RN
     107133-36-8 HCAPLUS
     1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-
CN
     (ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.
     with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)
     CM
           1
     CRN
           82834-16-0
     CMF
           C19 H32 N2 O5
Absolute stereochemistry. Rotation (-).
```

· CM 2

CRN 75-64-9 CMF C4 H11 N

CN

RN 107133-36-8 HCAPLUS

1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

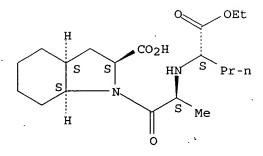
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NH_2
       -CH3
H_3Q
     CH<sub>3</sub>
                           5
                                 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                                  RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L17 ANSWER 13 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN
                           2005:673261 HCAPLUS
ACCESSION NUMBER:
                           143:153713
DOCUMENT NUMBER:
                           New crystalline form of perindopril
TITLE:
                           Rucman, Rudolf
INVENTOR(S):
                           Lek Pharmaceuticals D. D., Slovenia
PATENT ASSIGNEE(S):
                           PCT Int. Appl., 43 pp.
SOURCE:
                           CODEN: PIXXD2
DOCUMENT TYPE:
                           Patent
                           English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
                           1
PATENT INFORMATION:
     PATENT NO.
                           KIND
                                   DATE
                                                APPLICATION NO.
                                                                         DATE
                                               _____
                                   _____
     ______
                           _ _ _ _
                                              WO 2005-EP283
                                                                         20050113
                                   20050728
     WO 2005068425
                           Α1
             AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
              CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
              GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
              NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
         TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
              AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
              RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
              MR, NE, SN, TD, TG
                                   20050831
                                                SI 2004-12
                                                                          20040114
                            C
     SI 21704
                                                                      A 20040114
PRIORITY APPLN. INFO.:
                                                SI 2004-12
                           CASREACT 143:153713
OTHER SOURCE(S):
     The invention relates to a process for the preparation of ACE inhibitor
     perindopril which starts from N-[(S)-1-carbethoxybutyl]-L-alanine and
     involves trimethylsilyl protection and conversion to reactive acid
     chloride for reaction with (2S,3aS,7aS)-octahydroindole-2-carboxylic acid
     having a protected carboxyl group. The invention also relates to new
     crystalline and amorphous forms of perindopril. Thus, perindopril obtained by
     reaction of silylated reactants was purified by filtering a CH2Cl2 solution
     through a silica gel column and crystallizing from an Et ether solution
     Perindopril in new crystalline form (78.2%) was obtained.
     107133-36-8P, Perindopril erbumine
TT
     RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
      (Preparation)
         (preparation of perindopril in new crystalline form)
     107133-36-8 HCAPLUS
RN
     1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-
CN
      (ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S, 3aS, 7aS)-, compd.
```

with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L27 ANSWER 14 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2005:371219 HCAPLUS

DOCUMENT NUMBER:

142:435775

TITLE:

Novel method for preparation of crystalline

perindopril erbumine

INVENTOR(S):

Singh, Girij Pal; Godbole, Himanshu Madhav; Nehate,

Sagar Purushottam

PATENT ASSIGNEE(S):

Lupin Ltd., India

SOURCE:

PCT Int. Appl., 68 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.				KIND DA		DATE .		APPLICATION NO.				DATE					
						-									_		
WO	2005	0377	88		A1		2005	0428		WO 2	003-	IN34	0		. 2	0031	021
	W :	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	GE,
		GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,
		LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NI,	NO,	NZ,

OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003300689 A1 20050505 AU 2003-300689 20031021

PRIORITY APPLN. INFO:: WO 2003-IN340 A 20031021

AB Crystalline perindopril erbumine (I.H2NBu-tert) is prepared and the x-ray (powder) diffraction pattern given. The process comprises reacting a solution of perindopril (I), in a solvent selected from DMF or di-Me acetals of lower aliphatic aldehydes and ketones with tertiary butylamine and crystallization

of the erbumine salt thus obtained by heating the reaction mixture to reflux, filtering hot, cooling gradually to 20-30°, and further cooling to 0-15° for 30 min-1 h and finally filtering off and drying the crystals.

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834~16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

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CM
      2
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CRN 75-64-9 CMF C4 H11 N

```
NH<sub>2</sub>
H3C-C-CH3
          CH<sub>3</sub>
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REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 15 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2005:216790 HCAPLUS

DOCUMENT NUMBER:

142:298121

TITLE:

GI

Preparation of biphenyl or phenylheterocyclyl

moiety-containing esters as inhibitors of microsomal

triglyceride transfer protein

INVENTOR(S):

Hagiwara, Atsushi; Ikenogami, Taku; Mera, Yasuko;

Sumida, Yukako; Iida, Akio; Taniguchi, Toshio;

Takahashi, Mitsuru

PATENT ASSIGNEE(S):

Japan Tobacco Inc., Japan

SOURCE: PCT Int. Appl., 229 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND DATE	: A	APPLICATION NO.	DATE			
WO 2005021486	A1 2005	0310 W	7O 2004-JP12407	20040827			
W: AE, AG, AL,	AM, AT, AU,	AZ, BA,	BB, BG, BR, BW,	BY, BZ, CA, CH,			
			DZ, EC, EE, EG,				
GE, GH, GM,	HR, HU, ID,	IL, IN,	IS, JP, KE, KG,	KP, KR, KZ, LC,			
·			MG, MK, MN, MW,				
NO, NZ, OM,	PG, PH, PL,	PT, RO,	RU, SC, SD, SE,	SG, SK, SL, SY,			
TJ, TM, TN,	TR, TT, TZ,	UA, UG,	US, UZ, VC, VN,	YU, ZA, ZM, ZW			
			SD, SL, SZ, TZ,				
			AT, BE, BG, CH,				
			IT, LU, MC, NL,				
			CM, GA, GN, GQ,				
SN, TD, TG			, , , , , ,				
PRIORITY APPLN. INFO.:		J	TP 2003-305877	A 20030829			
OTHER SOURCE(S):	MARPAT 142:	298121					
GT				•			

The title compds. I [R1, R2 = H, alkyl, etc.; ring A = aryl, etc.; X = CO2(CH2)n, etc.; n = 0 - 3; R3, R4, R200 = H, halo, etc.; ring B = phenylene, etc.; ring C = Ph, etc.; R5, R6, R7 = H, alkyl, etc.; R8, R9 = H, (un)substituted alkyl, etc.; E = O, etc.; Y = OCO, etc.; Alk1, Alk2 = alkanediyl, etc.; l, m = 0 - 3] are prepared Thus, di-Et 2-(2-[3-acetoxy-4-[(4'-trifluoromethylbiphenyl-2-carbonyl)amino]phenyl]acetoxymethyl)-2-phenylmalonate was prepared in 2 steps from di-Et 2-(2-[3-benzyloxy-4-[(4'-trifluoromethylbiphenyl-2-carbonyl)amino]phenyl]acetoxymethyl)-2-phenylmalonate. In a test for the inhibition of triglyceride transfer activity between liposomes by microsomal triglyceride transfer protein, compds. of this invention showed IC50 values of < 10 nM to 1000 nM. Formulations are given.

IT 107133-36-8, Perindopril erbumine

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (combination of biphenyl or phenylheterocyclyl moiety-containing esters (as inhibitors of microsomal triglyceride transfer protein) and  $\alpha$ -and  $\beta$ -blockers)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

75-64-9 CRN CMF C4 H11 N

REFERENCE COUNT:

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Z17 ANSWER 16 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2005:182626 HCAPLUS

DOCUMENT NUMBER:

142:280052

TITLE:

INVENTOR(S):

Process for pure perindopril tert-butylamine salt Parthasaradhi Reddy, Bandi; Rathnakar Reddy, Kura; Raji Reddy, Rapolu; Muralidhara Reddy, Dasari;

Ramakrishna Reddy, Matta

PATENT ASSIGNEE(S):

Hetero Drugs Limited, India

SOURCE:

PCT Int. Appl., 15 pp.

CODEN: PIXXD2 Patent

DOCUMENT TYPE: LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT	NO.			KIN	)	DATE		i	APPL	ICAT:	I NOI	. 01	•	D	ATE	
					-									-		
WO 2005	01917	3		A1		2005	0303	7	WO 2	003-	IN27	5		20	00308	821
W:	AE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,
	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NI,	NO,	NZ,	OM,
	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	TJ,	TM,	TN,
	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	zw			
RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	ŪĠ,	ZM,	ZW,	AM,	ΑZ,	BY,
	KG,	KZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
	FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,
	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
AU 2003263584				A1		20050310			AU 2003-263584				20030821			
PRIORITY APPLN. INFO.:				-				WO 2003-IN276				A 20030821				
GI																

Pure perindopril tert-butylamine salt is obtained by extracting an aqueous

perindopril (I), namely (2S,3aS,7aS)-1-[(2S)-2-[[(1S)-1-

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-1H-indole-2-carboxylic acid, or its salt contaminated with impurities with a suitable organic solvent such as methylene dichloride at a pH of 4.0 to 6.5, separating the organic

layer, isolating I from the organic layer and converting it into tert-butylamine salt. Thus, perindopril tert-butylamine salt (15 g, purity 92.4%) was added to water (100 mL) and CH2Cl2 (100 mL) and the pH of the mass was adjusted to 5.4 by using 20% dilute HCl. The phases were separated and the aqueous layer was washed with CH2Cl2 (2 x 75 mL). The CH2Cl2 layer and washings are combined and the combined organic phase was washed with water (50 mL) and then with 10% aqueous NaCl (50 mL). The organic layer

was

CN

dried over Na2SO4 and concentrated to give a residue, perindopril, (99.3 % purity). EtOAc (255 mL) was added to the residue (15 g) and stirred for 10 min to obtain a clear solution Tert-Butylamine was added dropwise to the solution at 30° and stirred for 1 h at the same temperature. The reaction mass was then heated to reflux, passed over hiflo rapidly at reflux temperature and washed with hot EtOAc (30 mL). Then, the reaction mass was stirred for 2 h at .apprx.30°, cooled to 0°, and stirred for further 2 h at 0° to 5°. The separated solid was filtered, washed with EtOAc (15 mL), and dried to give 12 g of 99.77% pure perindopril tert-butylamine salt.

IT 107133-36-8P, Perindopril tert-butylamine salt
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

(process for pure perindopril tert-butylamine salt)

RN 107133-36-8 HCAPLUS

1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

```
NH2
H3C-C-CH3
    CH<sub>3</sub>
         COUNT:
                         2
                               THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE
                               RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
    ANSWER 17 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
                         2005:99521 HCAPLUS
DOCUMENT NUMBER:
                         142:156329
TITLE:
                         Preparation of \alpha-amino acid benzothiazolylthio
                         esters as intermediates for manufacture of ACE
                         inhibitors
INVENTOR(S):
                         Singh, Girij Pal; Godbole, Himanshu Madhav; Mahajan,
                         Pravin Raghunath; Nehate, Sagar Purushottam
PATENT ASSIGNEE(S):
                         Lupin Limited, India
SOURCE:
                         PCT Int. Appl., 108 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:
                         Patent
LANGUAGE:
                         English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
     PATENT NO.
                         KIND
                                DATE
                                            APPLICATION NO.
                                                                   DATE
     ------------
                         _ _ _ _
                                _ _ _ _ _ _ _
                                            ______
     WO 2005010028
                                20050203
                         A1
                                           WO 2003-IN257
                                                                  20030731
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
             PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
             TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                20050214
    AU 2003272077
                                           AU 2003-272077
                         A1
                                                                   20030731
PRIORITY APPLN. INFO.:
                                            WO 2003-IN257
                                                                A 20030731
OTHER SOURCE(S):
                         CASREACT 142:156329; MARPAT 142:156329
    The invention relates to esters (S,S)-RCH2CH2CH(CO2R1)NHCHR2CO-X (I; R is
     alkyl or Ph; R1 H or alkyl; R2 is alkyl or aminoalkyl; X is
     2-benzothiazolylthio) which are intermediates in the manufacture of ACE
     inhibitors I (X is an amino acid or derivative). The intermediate
    benzothiazolylthio esters were prepared by reaction of the appropriate acid
    or acid chloride with 2,2'-dithiobis(benzthiazole) or 2-
    mercaptobenzothiazole. Thus, treatment of N-[1(S)-(ethoxycarbonyl)-3-
    phenylpropyl]-N6-(trifluoroacetyl)-L-lysine (preparation given) with
     2,2'-dithiobis(benzothiazole), followed by coupling with L-proline Et
    ester and deprotection, afforded lisinopril dihydrate.
    107133-36-8P, Perindopril erbumine
TТ
    RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN
     (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study);
    PREP (Preparation); USES (Uses)
        (preparation of \alpha-amino acid benzothiazolylthio esters as
        intermediates for manufacture of ACE inhibitors)
RN
     107133-36-8 HCAPLUS
```

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

NH2 | H3C-C-CH3 | CH3 | REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 18 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2005:99360 HCAPLUS

DOCUMENT NUMBER:

142:170093

TITLE:

Combination therapies for treatment of hypertension

and complications in patients with diabetes or

metabolic syndrome

INVENTOR(S):

Fong, Benson M.; Cornett, Glen V.

PATENT ASSIGNEE(S):

Cotherix, Inc., USA PCT Int. Appl., 48 pp.

SOURCE: PCT Int. Appl CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005009446	A1	20050203	WO 2004-US23004	20040716
W: AE, AG, AL,	AM, AT	, AU, AZ, BA	, BB, BG, BR, BW, BY,	BZ, CA, CH,

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CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
            GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
            LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
            NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
            TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
        RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
            AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
            EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
            SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
             SN, TD, TG
    CA 2532807
                          AA
                                20050203
                                            CA 2004-2532807
                                                                    20040716
    US 2005043391
                          A1
                                20050224
                                            US 2004-892601
                                                                    20040716
PRIORITY APPLN. INFO.:
                                            US 2003-488040P
                                                                    20030717
                                            WO 2004-US23004
                                                                 W 20040716
```

AB Preferred embodiments of the invention are related to novel therapeutic drug combinations and methods for treating and/or preventing hypertension and complications in patients with diabetes and/or metabolic syndrome.

More particularly, aspects of the invention are related to using a combination of cicletanine and a second antihypertensive agent (preferably a calcium antagonist, an ACE inhibitor, or an angiotensin II receptor antagonist) for treating and/or preventing hypertension and complications in patients with diabetes and/or metabolic syndrome.

IT 107133-36-8, Coversyl

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(combination therapies for treatment of hypertension and complications in patients with diabetes or metabolic syndrome)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

```
NH<sub>2</sub>
H3C-C-CH3
     CH<sub>3</sub>
                                THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
                       HCAPLUS COPYRIGHT 2006 ACS on STN
     ANSWER 19 OF 80
                          2004:1154670 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                          142:62765
                          Preparation of various crystalline forms of
TITLE:
                          perindopril erbumine for use as drug
                          Straessler, Christoph; Lellek, Vit; Faessler, Roger
INVENTOR(S):
                          Azad Pharmaceutical Ingredients AG, Switz.
PATENT ASSIGNEE(S):
                          PCT Int. Appl., 23 pp.
SOURCE:
                          CODEN: PIXXD2
DOCUMENT TYPE:
                          Patent
                          German
LANGUAGE:
FAMILY ACC. NUM. COUNT:
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PATENT INFORMATION:

33

PATENT NO.	KIND DATE	APPLICATION NO.	DATE			
WO 2004113293		WO 2004-CH374	,			
		BA, BB, BG, BR, BW,				
CN, CO, CR	, CU, CZ, DE, DK,	DM, DZ, EC, EE, EG,	ES, FI, GB, GD,			
GE, GH, GM	, HR, HU, ID, IL,	IN, IS, JP, KE, KG,	KP, KR, KZ, LC,			
		MD, MG, MK, MN, MW,				
NO, NZ, OM	, PG, PH, PL, PT,	RO, RU, SC, SD, SE,	SG, SK, SL, SY,			
		UG, US, UZ, VC, VN,				
		NA, SD, SL, SZ, TZ,				
		TM, AT, BE, BG, CH,				
		IE, IT, LU, MC, NL,				
SI, SK, TR	, BF, BJ, CF, CG,	CI, CM, GA, GN, GQ,	GW, ML, MR, NE,			
SN, TD, TG						
		CA 2004-2530550				
AU 2004249345		AU 2004-249345				
EP 1636185 ·	A1 20060322	EP 2004-737029	20040618			
		GB, GR, IT, LI, LŪ,				
IE, SI, LT	, LV, FI, RO, MK,	CY, AL, TR, BG, CZ,				
PRIORITY APPLN. INFO.:		CH 2003-1109	A 20030624			
		WO 2004-CH374	W 20040618			

AB Disclosed are two novel crystalline forms d and e of perindopril erbumine, which are suitable as therapeutic substances in medicaments used for treating cardiovascular diseases, especially high blood pressure and cardiac insufficiency. Crystalline form e is obtained by crystallizing perindopril erbumine

from MTBE containing 1.5 to 2.5 % (volume/volume) of water at 30 to 45°, preferably 34 to 45°, crystallization expediently taking place by stirring. Crystalline form e changes into crystalline form d if the water is removed, practically by azeotropic distillation, preferably at 35 to 37°, and stirring continues for at least 15 h at 30 to 45°, preferably 35 to 37°. Crystalline form d can also be obtained by stirring crystalline form a or ss in tert-Bu Me ether containing 0.9 to 1.4 % (volume/volume) of water at

to 38° while inoculating the same with crystalline form d. Crystalline form

e can further be obtained by stirring crystalline form a or ss in tert-Bu Me ether containing 0.9 to 1.4 % (volume/volume) of water at 28 to 35° while inoculating the same with crystalline form e, or by stirring crystalline form

a or

to

ss in tert-Bu Me ether containing 1.5 to 2.0 % (volume/volume) of water at 35

38°.

IT 107133-36-8, Perindopril erbumine

RL: PEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(preparation of various crystalline forms of perindopril erbumine for use as drug)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 20 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

5

ACCESSION NUMBER:

2004:1106652 HCAPLUS

DOCUMENT NUMBER:

142:6877.7

TITLE:

Clinicopathological factors that affect the therapeutic benefits of inhibitors of the renin

AUTHOR (S):

SOURCE:

PUBLISHER:

angiotensin system in patients with IqA nephropathy Moriyama, Takahito; Nitta, Kosaku; Uchida, Keiko;

Yumura, Wako; Nihei, Hiroshi

CORPORATE SOURCE:

Department of Medicine IV, Tokyo Women's University School of Medicine, Tokyo, 162-8666, Japan

Tokyo Joshi Ika Daigaku Zasshi (2004), 74(11), 632-641

CODEN: TJIZAF; ISSN: 0040-9022

Tokyo Joshi Ika Daiqaku Gakkai

Journal

DOCUMENT TYPE: LANGUAGE: English

Recent studies have shown that inhibitors of the renin-angiotensin system AR (I-RAS) such as angiotensin converting enzyme inhibitor (ACE-I) and angiotensin II receptor blocker (ARB) are effective for IgA nephropathy (IgAN). However, the precise mechanism of the effects remains unknown. The present study was conducted to elucidate the pathol. factors affecting the therapeutic benefits of I-RAS in IgAN. Twenty-six IgAN patients were studied retrospectively. The patients were divided into two groups according to the grade of reduction of urinary protein excretion: the responder group (n = 12) and the non-responder group (n = 14). The modality of treatment was determined by the clin. and histol. findings of each patient. No significant difference before treatment was observed between the responder and non-responder groups. In the evaluation of the outcome after treatment, the amts. of urinary protein excretion one year after treatment and at the final observation significantly decreased in the responder group but remained unchanged in the non-responder group. However, the levels of serum-creatinine, urinary red blood cell sediment, and mean blood pressure were not significantly different between both groups. Histol., the rate of glomerular obsolescence, interstitial inflammatory cell infiltration and interstitial fibrosis tended to be higher in the non-responder group than in the responder group, and the rate of crescent formation tended to be higher in the responder group than in the non-responder group, but did not reach statistical significance. The grades of mesangial cell proliferation and mesangial matrix increase were not significantly different between both groups. The grade of arterio- and arteriolosclerosis was significantly higher in the non-responder group than in the responder group (0.92  $\pm$  0.52 vs. 1.91  $\pm$  1.08, p = 0.043, 1.08  $\pm$  0.79 vs. 1.78  $\pm$  0.97, p = 0.033). These findings suggest that arterio- and arteriolo-sclerosis could be a predictor for the effectiveness of I-RAS in IgAN patients. IT · 107133-36-8, Perindopril erbumine

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(clinicopathol. factors including arteriosclerosis that affect therapeutic benefits of inhibitors of renin angiotensin system in patients with IgA nephropathy)

RN107133-36-8 HCAPLUS

CN1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CRN 75-64-9 C4 H11 N CMF

$$^{\mathrm{NH}_{2}}_{\mathrm{H}_{3}\mathrm{C--C-CH}_{3}}_{\mathrm{CH}_{3}}$$

ANSWER 21 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:1058387 HCAPLUS

DOCUMENT NUMBER:

142:28182

TITLE:

Stabilized solid compositions containing bioactive components and silicate salts, and manufacture thereof

INVENTOR(S):

Matsumoto, Takahiro

PATENT ASSIGNEE(S):

Daiichi Seiyaku Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

SOURCE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE									
	JP 2004346066,	A2	20041209	JP. 2004-132348										
PRIO	RITY APPLN. INFO.:			JP 2003-125945	A 20030430 ·									
AB	The invention relat	es to a	pharmaceuti	cal solid composition	n having improved									
	stability against high-temperature and high-humidity, wherein the composition is													
	characterized by co	ntainir	g a bioactiv	re component, especial	lly an ACE									
characterized by containing a bioactive component, especially an ACE inhibitor, and														
	a silicic acid salt	. A ta	blet contain	ning perindopril erbum	nine 2, calcium									
				e 102.25, silica 0.2,										
	stearate 0.55 mg wa			,	<b>-</b>									
IT	107133-36-8, Perind	lopril e	rbumine		•									
				ogical study); USES (U	Jses)									
				g bioactive component										
	salts, and manuf			-3										
RN	107133-36-8 HCAPLU		,											
CN	1H-Indole-2-carboxy	_	.d, 1-[(2S)-2	?-[[(1S)-1-										

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.

with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

L17 ANSWER 22 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:996205 HCAPLUS 141:395815

DOCUMENT NUMBER: TITLE:

A process for the preparation of perindopril using

tetramethyluronium salts as coupling reagents

INVENTOR(S):

Rucman, Rudolf

PATENT ASSIGNEE(S):

Lek Pharmaceuticals D.D., Slovenia

SOURCE:

PCT Int. Appl., 15 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

: 1

	PAT	PATENT NO.					D :	DATE		1	APPL	ICAT:	ION 1	. O <i>l</i> .		D	ATE	
							-									-		
	WO	2004	0992	36		A1		2004	1118	1	WO 2	004-	5120			2	0040	507
		W: AE, AG,			AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN, CO, C		CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
		GE, GH, G		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	
			LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,
			NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
TJ, TM, T			TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW		

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG 20030508 SI 21506 С 20041231 SI 2003-118 EP 1628995 A1 20060301 EP 2004-731809 20040507 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK PRIORITY APPLN. INFO.: SI 2003-118 A 20030508 WO 2004-SI20 20040507 OTHER SOURCE(S): CASREACT 141:395815; MARPAT 141:395815 A process for the preparation of the ACE inhibitor perindopril involves activation of N-[1(S)-(ethoxycarbonyl)butyl]-(S)-alanine (1) with a tetramethyluronium salt in the presence of a tertiary organic base, coupling with (2S,3aS,7aS)-octahydroindole-2-carboxylic acid (2) or an ester, and deprotection. Thus, a mixture of 1, 2 benzyl ester, TBTU and diisopropylethylamine in DMF/CH2Cl2 was stirred for 4 h to afford benzyl-perindopril, which was converted to perindopril by phase transfer or classical hydrogenation. IT107133-36-8P, Perindopril erbumine RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation) (preparation of perindopril using tetramethyluronium salts as coupling reagents) 107133-36-8 HCAPLUS RN CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME) CM 1

Absolute stereochemistry. Rotation (-).

82834-16-0 C19 H32 N2 O5

CM 2

CRN

CMF

CRN 75-64-9 CMF C4 H11 N

```
NH<sub>2</sub>
        CH<sub>3</sub>
      CH<sub>3</sub>
                                          THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                                 2
                                          RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L17 ANSWER 23 OF 80
                             HCAPLUS COPYRIGHT 2006 ACS on STN
                                  2004:996123 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                                  141:411226
                                  Process for preparation of perindopril and its salts
TITLE:
                                  Kankan, Rajendra Narayanrao; Rao, Dharmaraj
INVENTOR (S):
                                  Ramachandra
                                  Cipla Limited, India; Wain, Christopher Paul
PATENT ASSIGNEE(S):
                                  PCT Int. Appl., 26 pp.
SOURCE:
                                  CODEN: PIXXD2
                                  Patent
DOCUMENT TYPE:
LANGUAGE:
                                  English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                            APPLICATION NO.
                                                                                           DATE
      PATENT NO.
                                 KIND
                                           DATE
                                                            ______
                                            _____
      WO 2004099138
                                   A2
                                           20041118
                                                            WO 2004-GB2029
                                                                                            20040512
      WO 2004099138
                                           20041223
                                  A3

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

                 SN, TD, TG
PRIORITY APPLN. INFO.:
                                                            IN 2003-MU468
                                                                                       A 20030512
                                  CASREACT 141:411226; MARPAT 141:411226
OTHER SOURCE(S):
      A process for preparing perindopril or a pharmaceutically-acceptable salt
      comprises esterifying (2S,3aS,7aS)-octahydro-1H-indole-2-carboxylic acid
       (I) with benzyl alc. (or the 4-chloro or 4-alkoxy derivative) in the presence
      of benzenesulfonic acid as catalyst, treating the intermediate ester
      benzenesulfonate with N-[(S)-1-carbethoxybutyl]-L-alanine (II), and ester
      cleavage. Thus, I benzyl ester benzenesulfonate (40 g) was prepared, its
      suspension in CH2Cl2 made alkaline with aqueous ammonia, and the organic layer.
separated
       Treatment with II at 10-15 °C in the presence of
      hydroxybenzotriazole and N,N'-dicyclohexylcarbodiimide and workup afforded
      43 g perindopril benzyl ester.
      107133-36-8P, Perindopril erbumine
IT
      RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
       (Preparation)
           (preparation of perindopril and its salts)
```

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.

107133-36-8 HCAPLUS

1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-

RN

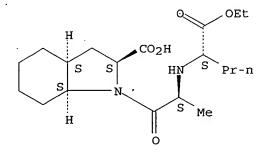
CN

with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9 CMF C4 H11 N

L17 ANSWER 24 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:930759 HCAPLUS

DOCUMENT NUMBER: 142:254148

TITLE: Efficiency of Refracterin in Patients with Chronic

Cardiac Insufficiency Caused by Coronary Heart Disease

AUTHOR(S): Kanorskii, S. G.; Galenko-Yaroshevskii, P. A.;

Zingilevskii, K. B.

CORPORATE SOURCE: Krasnodar Research Center, Russian Academy of Medical

Sciences, Russia

SOURCE: Bulletin of Experimental Biology and Medicine

(Translation of Byulleten Eksperimental'noi Biologii i

Meditsiny) (2004), 138(1), 67-69 CODEN: BEXBAN; ISSN: 0007-4888

PUBLISHER: Springer Science+Business Media, Inc.

DOCUMENT TYPE: Journal LANGUAGE: English

AB Composite preparation refracterin administered in a dose of 300 mg/day for 3 days in addition to routine therapy significantly improved the results of treatment of severe cardiac insufficiency of ischemic genesis compared to placebo. Improvement of clin. status of patients is determined by pos. dynamics of systolic and diastolic functions of the left ventricle.

IT 107133-36-8, Prestarium

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(short term refracterin therapy efficiently improved result of routine treatment involving perindopril by induction of pos. change in systolic and diastolic function of LV in patient with chronic cardiac insufficiency covered by CUD)

insufficiency caused by CHD)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 25 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:902177 HCAPLUS

DOCUMENT NUMBER:

141:374721

TITLE:

Use of an ACE inhibitor or angiotensin II receptor antagonist for decreasing the incidence of atrial fibrillation in patients with left ventricular

dysfunction

INVENTOR(S):

Ducharme, Anique; Tardif, Jean-Claude; Bourassa,

Martial · G.

PATENT ASSIGNEE(S):

Institut de Cardiologie de Montreal / Montreal Heart

Institute, Can.

SOURCE:

PCT Int. Appl., 32 pp.

CODEN: PIXXD2

```
DOCUMENT TYPE: LANGUAGE:
```

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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PATENT NO.
                        KIND
                               DATE
                                         APPLICATION NO.
                                          -----
                        _ _ _ -
                                        WO 2004-CA568
    WO 2004091608
                        A1
                               20041028
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
            CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
            GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
            LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
            NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
            TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
        RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
            BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
            ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
            SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
            TD. TG
    CA 2517707
                         AA
                               20041028
                                          CA 2004-2517707
                                                                 20040415
                                          EP 2004-727489
    EP 1613306
                         A1
                               20060111
                                                                 20040415
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
            IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR
                                           US 2003-462734P
PRIORITY APPLN. INFO.:
                                                              P 20030415
                                           WO 2004-CA568
                                                              W 20040415
```

AB Atrial fibrillation (AF) is frequently encountered in patients with heart failure (HF) and is also a predictor of morbidity and mortality in this population. Recent exptl. studies have shown elec. and structural atrial remodeling with increased fibrosis in HF animals, and have suggested a preventive effect of angiotensin converting enzyme inhibitors (ACEi) on the development of AF. To verify the hypothesis that ACEi prevent the development of AF in patients with HF, a retrospective anal. of the patients from the Montreal Heart Institute included in the Studies Of Left Ventricular Dysfunction was conducted. The results of this retroactive anal. indicate that treatment with the ACE inhibitor, e.g. enalapril, can markedly reduce the risk of developing atrial fibrillation in patients with left ventricular dysfunction.

IT 107133-36-8, Coversyl

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(ACE inhibitor or angiotensin II receptor antagonist for decreasing incidence of atrial fibrillation in patient with left ventricular dysfunction)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1 '

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (,-).

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 26 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:759824 HCAPLUS

DOCUMENT NUMBER:

141:254560

TITLE:

Composition and method using a leukotriene inhibitor,

an antihistamine and a corticosteroid for treating

inflammation by reducing C-reactive protein

INVENTOR(S):

Mullally, John P.

PATENT ASSIGNEE(S):

USA

SOURCE:

U.S. Pat. Appl. Publ., 8 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English .

FAMILY ACC. NUM. COUNT:

PAT	ENT I	NO.	•		KINI	) ]	DATE		1	APPL	ICAT:	I NOI	. 01		D	ATE	
US	2004	1808	68		A1		2004	0916	1	JS 20	004-	7981	17		2	0040	311
CA	2518	409			AA	:	2004	0923		CA 20	004-2	25184	409		2	00400	311
WO	2004	0804	14		A2	:	2004	0923	1	WO 2	004-1	JS73	81		20	0040	311
WO	2004080414 A3 W: AE, AG, AL, AM,					:	2005	0512									
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		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	ΚZ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NΆ,	NI,
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
		ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	zw
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,
•		BY,	KG,	KZ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,
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SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

US 2003-453917P P 20030312 US 2003-482574P P 20030624 WO 2004-US7381 W 20040311

AB A method and composition for reducing C-reactive protein for reducing systemic inflammation in the body of a user is achieved through the daily administration of a leukotriene inhibitor, an antihistamine, and a corticosteroid. The composition may be administered singly or as a single medicament. Typically, the leukotriene inhibitor and antihistamine are administered orally.

IT 107133-36-8, Aceon

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(leukotriene inhibitor, antihistamine, and corticosteroid for treating inflammation by reducing C-reactive protein)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

L17 ANSWER 27 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:648315 HCAPLUS

DOCUMENT NUMBER:

141:179622

TITLE:

Controlled release pharmaceutical compositions

containing polymers

INVENTOR(S): Kannan, Muthaiyyan Esakki; Krishnan, Anandi; Sapre,

Beena Amol; Shah, Chitra; Patil, Atul

PATENT ASSIGNEE(S): Glenmark Pharmaceuticals Ltd., India

SOURCE:

PCT Int. Appl., 75 pp. CODEN: PIXXD2

·

Patent

DOCUMENT TYPE: LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATE	PATENT NO.				KIN	)	DATE			APPL	ICAT:	I NOI	. OI		D	ATE		
						-									_			
WO 2	20040	0669	10	-	A2		2004	0812		WO 2	004-	IB274	1		2	0040	126	
WO 2	2004	0669	10		C1		2004	1007										
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,	
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
•		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,	
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	·SY,	
		TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW	
·	RW: BW, GH,		ĠM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	ŪĠ,	ZM,	ZW,	AM,	ΑZ,		
	BY, KG, K			KZ,	MD,	RU,	ТJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	
	BY, KG, K2 ES, FI, FF			FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	
		TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
US 2	2004	1850	97		A1		2004	0923		US 2	004-	7621	В О		2	0040	121	
CA 2	24938	899			AA		2004	0812		CA 2	004-	2493	899		2	0040	126	
EP 1	1599:	190			A2		2005	1130		EP 2	004-	7051	37		2	0040	126	
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK		
PRIORITY	PRIORITY APPLN. INFO.:			. :						IN 2	0,03-	MU13:	2		A 2	0030	131	
										US 2	003-	5175	89P		P 2	0031	105	
										IN 2	003-	MU13	0		A 2	0030	131	
				•						WO 2	004-	IB27	4		W 2	0040	126	
7D' 7 ~		ו ה א	1		- h			~ ~			~~ ~		h10		~ : ~ ~	~ ~		

- AB A solid controlled release pharmaceutical composition suitable comprises a drug, a primary release-modifying agent, a secondary release-modifying agent and an auxiliary release-modifying agent, which are present in amts. that synergistically extend the release of the active ingredient. Thus, tablets contained nicotinic acid 500.00, PEG (mol. weight 4,000,000) 170.0, retrograde starch 40.00, lactose monohydrate 30.00, talc 5.00, and Mg stearate 5.00 mg, and water qs.
- IT 107133-36-8, Perindopril erbumine
  - RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (controlled release pharmaceutical compns. containing polymers)
- RN 107133-36-8 HCAPLUS .
- CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CRN 75-64-9 CMF C4 H11 N

L17 ANSWER 28 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:552033 HCAPLUS

DOCUMENT NUMBER:

141:179795

TITLE:

Enantioselective, potentiometric membrane electrode, based on vancomycin as chiral selector, for the assay

of S-perindopril

AUTHOR (S):

Ozoemena, Kenneth I.; Stefan, Raluca-Ioana; van

Staden, Jacobus F.; Aboul-Enein, Hassan Y.

CORPORATE SOURCE:

Department of Chemistry, University of Pretoria,

Pretoria, S. Afr.

SOURCE:

Instrumentation Science & Technology (2004), 32(4),

371-378

CODEN: ISCTEF; ISSN: 1073-9149

PUBLISHER:

Marcel Dekker, Inc.

DOCUMENT TYPE:

Journal English

LANGUAGE:

The construction of an enantioselective, potentiometric membrane electrode (EPME) based on carbon paste impregnated with macrocyclic antibiotic vancomycin (VCM) as chiral selector is described. The proposed electrode was applied for the assay of S-perindopril (S-Pdp) raw material and from its pharmaceutical formulation (Coversyl tablets) by use of a direct potentiometric method. The surfaces of the electrode can easily be renewed by simply polishing on an alumina paper.

IT 107133-36-8, Coversyl

RL: ANT (Analyte); ANST (Analytical study)

(enantioselective, potentiometric membrane electrode, based on vancomycin as chiral selector, for the assay of S-perindopril)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CRN 82834-16-0 C19 H32 N2 O5 CMF

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

HCAPLUS COPYRIGHT 2006 ACS on STN L17 ANSWER 29 OF 80

ACCESSION NUMBER:

2004:427629 HCAPLUS

DOCUMENT NUMBER:

140:407114

TITLE:

Method for synthesis of perindopril and its

pharmaceutically-acceptable salts Dubuffet, Thierry; Langlois, Pascal

INVENTOR(S):

Les Laboratoires Servier, Fr.

PATENT ASSIGNEE(S): SOURCE:

Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT I	NO.			KIN	o . :	DATE		i	APPL:	ICAT:	I NOI	. OI		D	ATE	
					-							•				
EP 1422	236			A1		2004	0526	]	EP 2	003-	29286	55		20	0031	119
R:	: AT, BE, CH, IE, SI, LT,			DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
	IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR.,	BG,	CZ,	EE,	HU,	SK	
WO 2005	WO 2005054277					2005	0616	1	WO 2	004-1	FR29	37		20	0041	118
W:	AE,	AG,	ΑL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,
	CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
	GE,	GH,	GM,	HR,	HU,	ID,	ΙL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,

LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:

EP 2003-292865 A 20031119

OTHER SOURCE(S):

MARPAT 140:407114

Perindopril was prepared by cyclization of (2S)-3-(2-bromophenyl)-2-[[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]propanoyl]amino]propanoic acid (I) or its esters in the presence of a Pd-based catalyst and a base [e.g., Pd2(dba)3, P(o-tolyl)3, and Cs2CO3], followed by catalytic hydrogenation. Intermediate I was prepared by coupling of N-[(S)-1-carbethoxybutyl]-L-alanine N-carboxyanhydride with (S)-2-bromophenylalanine.

IT 107133-36-8P, Perindopril erbumine

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(synthesis of perindopril and its pharmaceutically-acceptable salts)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

## RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

HCAPLUS COPYRIGHT 2006 ACS on STN L17 ANSWER 30 OF 80

ACCESSION NUMBER:

2004:405692 HCAPLUS

DOCUMENT NUMBER:

140:407109

TITLE:

Hydrogenolysis of benzyl ester of perindopril for preparing perindopril monohydrates for use as inhibitors of angiotensin converting enzyme (ACE)

INVENTOR(S):

Rao, Dharmaraj Ramachandra; Kankan, Rajendra

Narayanrao

PATENT ASSIGNEE(S):

Cipla Limited, India

SOURCE:

Brit. UK Pat. Appl., 16 pp. CODEN: BAXXDU

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

	PATENT NO.  GB 2395195				KIN	)	DATE		i			ION 1			D	ATE			
								2004	0519	(						20	0021	118	
	CA	2506	587			AA		2004	0603	(	CA 2	003-	2506	587		20	0031	118	
	WO	2004	0461	72		A1		2004	0603	1	WO 2	003-0	GB498	31		20	0031	118	
		W:	ΑE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,	
			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FΙ,	GΒ,	GD,	GE,	GH,	
			GM,	HR,	HU,	ID,	ΙĹ,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR.,	
			LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,	
			PL,	PT,	RO,	RU,	SD,	SE,	SG,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	
			UG,	US.,	UZ,	VN,	YU,	ZA,	ZM,	ZW							•		
		RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG;	ZM,	ZW,	AM,	ΑZ,	
			BY,	KG,	KZ,	MD,	RU,	TJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	
			ES,	FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	
								CI,											TG
	ΑU	2003	2835	88		A1		2004	0615		AU 2	003-	2835	88		2	0031	118	
	ΕP	1565	485			<b>A1</b>		2005	0824		EP 2	003-	7755	65		2	0031	118	
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
			ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	ΗU,	SK		
	BR	2003	0157	03		Α		2005	1025		BR 2	003-	1570	3		2	0031	118	
	CN	1738	830			Α		2006	0222		CN 2	003-	8010	8700		2	0031	118	
US 2006063941			<b>A1</b>		2006	0323	1	US 2	005-	5351	87		2	0051	031				
PRIORITY APPLN. INFO.:										2688									
							1	WO 2	003-	GB49	81	,	W 2	0031	118				
OTHER	OTHER SOURCE(S):			CAS	REAC	Т 14	0:40	7109	; MA	RPAT	140	:407	109						

AB Perindopril (I), or a pharmaceutically acceptable salt thereof, may be prepared from a protected ester II (R = aralkyl, CH2Ph) via hydrogenolysis in the presence of a noble metal catalyst, such as Pd/charcoal, in the presence of a base. For example, when the base is tert-butylamine, it forms a pharmaceutically-acceptable addition salt with I, thus forming perindopril erbumine, I·tert-butylamine salt. A monohydrate of I, or a pharmaceutically acceptable salt thereof, is also claimed and may be prepared by hydrating I, or a pharmaceutically acceptable salt thereof, by way of addition of water or by drying in air. Perindopril erbumine monohydrate was prepared and studied by x-ray diffraction. Perindopril monohydrates may be used as angiotensin converting enzyme (ACE) inhibitors.

IT 107133-36-8P, Perindopril erbumine

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of perindopril, its salts and monohydrates from hydrogenolysis of its benzyl ester)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 31 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

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2004:405663 HCAPLUS
ACCESSION NUMBER:
                              140:375491
DOCUMENT NUMBER:
                              Method for the synthesis of perindopril and its
TITLE:
                              pharmaceutically-acceptable salts
INVENTOR(S):
                              Dubuffet, Thierry; Lecouve, Jean-Pierre
                              Les Laboratoires Servier, Fr.
PATENT ASSIGNEE(S):
                              Eur. Pat. Appl., 6 pp.
SOURCE:
                              CODEN: EPXXDW
DOCUMENT TYPE:
                              Patent
                              French
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                    APPLICATION NO.
                                       DATE
      PATENT NO.
                              KIND
      ______
                              _ _ _ _
                                       -----
                                                      -----
                                                                                   ____
                         A2
· A3
                                                      EP 2003-293084
      EP 1420029
                                       20040519
                                                                                   20031210
     EP 1420029
                                       20040526
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                                       20050721 WO 2004-FR3166
      WO 2005066198
                               A1
                                                                                   20041209
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
               NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
          RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
                MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                                                               A 20031210
                                                      EP 2003-293084
      A method for the synthesis of perindopril involves coupling of
      (2S)-indoline-2-carboxylic acid benzyl ester or (2S,3aS,7aS)-
      octahydroindole-2-carboxylic acid benzyl ester with N-[(S)-1-
      carbethoxybutyl]-L-alanine in the presence of a coupling agent [e.g.,
      O-(benzotriazol-1-yl)-1,1,3,3-bis(tetramethylene)uronium
      hexafluorophosphate], followed by hydrogenation over Pd. Perindopril was
      converted into its tert-butylamine salt.
      107133-36-8P, Perindopril erbumine
      RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
      (Preparation)
          (synthesis of perindopril and its pharmaceutically-acceptable salts)
RN
      107133-36-8 HCAPLUS
      1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-
CN
      (ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.
      with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)
      CM
            1
      CRN 82834-16-0
      CMF C19 H32 N2 O5
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Absolute stereochemistry. Rotation (-).

CRN 75-64-9 C4 H11 N CMF

L17 ANSWER 32 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:405662 HCAPLUS

DOCUMENT NUMBER:

140:375490

TITLE:

Method for the synthesis of perindopril and its

pharmaceutically-acceptable salts Dubuffet, Thierry; Langlois, Pascal

INVENTOR(S): PATENT ASSIGNEE(S):

Les Laboratoires Servier, Fr.

SOURCE:

Eur. Pat. Appl., 8 pp. CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PAT	PATENT NO.				KIN	D I	OATE		j	APPL:	ICAT:	ION I	. OI		D	ATE	
EP	1420	028			A2	- :	2004	0519	. :	EP 20	003-	29286	54	,	20	0031	119
ΕP	1420	028			A3	:	2004	0526									
	R:	AΤ,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	ΝĹ,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK	
WO	WO 2005054276 W: AE, AG, A			A1	:	2005	0616	1	WO 2	004-	FR29	36		20	0041:	118	
	W:	AE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KΡ,	KR,	KZ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
		TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,
				KG,													
		EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IS,	IT,	LU,	MC,	NL,	PL,	PT,	RO,
				SK,		-			-	•	•	•			-	-	
		•		TD.	•	•	,			,	,	•	•	~ '	•	·	•

PRIORITY APPLN. INFO.:

EP 2003-292864

A 20031119

OTHER SOURCE(S):

MARPAT 140:375490

G

I

- AB A method for the synthesis of perindopril involves reaction of indolinecarboxylate derivs. I (R = H or a protective group, G = Cl, Br, OH, TsO, MeSO3 or CF3SO3) with (S)-PrCH(NH2)CO2Et (II), followed by catalytic hydrogenation. II was prepared by reaction of (S)-2-BrC6H4CH2CH(NH2)CO2R with (R)-MeCH(G)COCl and intamol coupling, e.g., in the presence of Pd2(dba)3, P(o-tolyl)3, and Cs2CO3. Perindopril was converted into its tert-butylamine salt.
- IT 107133-36-8P.
  RL: IMF (Industrial manufacture); SPN (Synthetic preparation); THU
   (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
   (Uses)

(synthesis of perindopril and its pharmaceutically-acceptable salts)

RN 107133-36-8 HCAPLUS

1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CN

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

L17 ANSWER 33 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:363685 HCAPLUS

DOCUMENT NUMBER:

140:380637

TITLE:

Stabilisation of pharmaceutical compositions comprising ACE inhibitor by absence of acidic excipients having large specific surface area, e.q.

silicon dioxide

INVENTOR (S):

Bergman, Jeffrey; Mantri, Pranita S.

PATENT ASSIGNEE(S):

Niche Generics Limited, UK; Unichem Laboratories

Limited

SOURCE:

Brit. UK Pat. Appl., 50 pp.

CODEN: BAXXDU

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2394660	A1	,20040505	GB 2003-29232	20031217
PRIORITY APPLN. INFO.:		•	GB 2003-29232	20031217
OTHER SOURCE(S):	MARPAT	140:380637		

The present invention relates to stable pharmaceutical compns. comprising an ACE inhibitor (which are otherwise susceptible to degradation due to cyclisation, hydrolysis and oxidation). This is achieved by providing compns. substantially free of any acidic excipients having a large sp. surface area, especially substantially free of colloidal silicon dioxide. composition also comprises one or more excipients, which are preferably compatible with the ACE inhibitor. The ACE inhibitor is preferably perindopril or ramipril. The composition may be used as a medicament for the treatment or prevention of a cardiovascular disorder, hypertension, coronary heart disease or a cerebrovascular disease. The composition may further comprise a  $\beta$ -blocker, a diuretic, a calcium-channel blocker, a vasodilator anti- hypertensive drug, or an angiotensin II receptor antagonist.

IT 107133-36-8, Perindopril erbumine

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (stabilization of pharmaceutical compns. comprising ACE inhibitor by absence of acidic excipients having large sp. surface area like silicon dioxide)

107133-36-8 HCAPLUS RN

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 34 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:351638 HCAPLUS

DOCUMENT NUMBER:

140:350628

TITLE:

Prophylactic and therapeutic agents for treatment of

fibrosis-associated chronic kidney disorders

INVENTOR(S):

Nakagawa, Tsutomu; Nagamine, Jun

PATENT ASSIGNEE(S):

Sumitomo Pharmaceutical Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 26 pp. CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

1

PATENT NO.	KIND .	DATE	APPLICATION NO.	DATE
JP 2004131444	- A2	20040430	JP 2002-298927	20021011
PRIORITY APPLN. INFO.:			JP 2002-298927	20021011
OTHER SOURCE(S):	MARPAT	140:350628		
GI				

Ι

AB Title agents, which are used in combination with kidney-protecting pharmaceuticals, contain fibrosis inhibitors as active ingredients, or vice-versa. Thus, pyrrole derivative I (TGF- $\beta$  inhibitor) and losartan showed synergistic efficacy in diabetic nephropathy in C57BL/KsJ-db/db mice.

IT 107133-36-8, Perindopril erbumine
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(synergistic drugs containing kidney-protecting agents and fibrosis inhibitors for treatment of fibrosis-associated chronic kidney disorders)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

```
L17 ANSWER 35 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN
                               2004:266897 HCAPLUS
ACCESSION NUMBER:
                               140:253917
DOCUMENT NUMBER:
                               Process for the synthesis of perindopril and its
TITLE:
                               pharmaceutically-acceptable salts
                               Dubuffet, Thierry; Langlois, Pascal
INVENTOR(S):
PATENT ASSIGNEE(S):
                               Les Laboratoires Servier, Fr.
SOURCE:
                               Eur. Pat. Appl., 9 pp.
                               CODEN: EPXXDW
DOCUMENT TYPE:
                               Patent
                               French
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                               KIND
                                        DATE
      PATENT NO.
                                                        APPLICATION NO.
                                                                                     DATE
                              . ----
                                        -----
                                                       -----
                                                                                      _____
      _____
      EP 1403275
                                A1
                                        20040331
                                                       EP 2003-290485
                                                                                     20030228
                                        20051019
      EP 1403275
                                В1
           R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                              E
      AT 307139
                                        20051115
                                                     AT 2003-290485
                                                                                     20030228
                                        20040916
                                                        AU 2004-217599
                                                                                     20040227
      AU 2004217599
                                Α1
      WO 2004078107
                                A2
                                        20040916
                                                       WO 2004-FR446
                                                                                     20040227
      WO 2004078107
                                        20041021
                                A3
           W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.:
                                                        EP 2003-290485
                                                                                 A 20030228
                                                                                 A 20040227
                                                        WO 2004-FR446
OTHER SOURCE(S):
                               MARPAT 140:253917
      A method for the synthesis of perindopril involves coupling of
      (2S)-2,3,4,5,6,7-hexahydro-1H-indolecarboxylic acid (I) or an ester with
      N-[(S)-1-carbethoxybutyl]-L-alanine, followed by catalytic hydrogenation. I benzyl ester tosylate was prepared by reaction of 1-(1-cyclohexen-1-
      yl)pyrrolidine with (R)-ICH2CH(NBoc)CO2CH2Ph (Boc = tert-butoxycarbonyl),
      followed by deprotection and cyclization. Perindopril was converted into
      its tert-butylamine salt.
      107133-36-8P
IT
      RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
      (Preparation)
          (synthesis of perindopril and pharmaceutically-acceptable salts)
      107133-36-8 HCAPLUS
RN
      1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-
      (ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.
      with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)
      CM
            1 .
      CRN 82834-16-0
      CMF
           C19 H32 N2 O5
Absolute stereochemistry. Rotation (-).
```

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 36 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

3

ACCESSION NUMBER:

2004:203796 HCAPLUS

DOCUMENT NUMBER:

140:253571

TITLE:

Preparation of N-phenyl or N-heterocyclyldibenzylamine compounds as inhibitors of cholesteryl ester transfer

protein (CETP) and medicinal use thereof

INVENTOR(S):

Maeda, Kimiya; Nagamori, Hironobu; Nakamura, Hiroshi;

Shinkai, Hisashi; Suzuki, Yasunori; Takahashi,

Daisuke; Taniguchi, Toshio

PATENT ASSIGNEE(S): SOURCE:

Japan Tobacco Inc., Japan PCT Int. Appl., 207 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
WO 2004020393	A1 20040311	WO 2003-JP11041	20030829
W: AE, AG, AL,	AM, AT, AU, AZ,	BA, BB, BG, BR, BY, BZ,	CA, CH, CN,
CO, CR, CU,	CZ, DE, DK, DM,	DZ, EC, EE, ES, FI, GB,	GD, GE, GH,
GM, HR, HU,	ID, IL, IN, IS,	KE, KG, KR, KZ, LC, LK,	LR, LS, LT,
LU, LV, MA,	MD, MG, MK, MN,	MW, MX, MZ, NI, NO, NZ,	OM, PG, PH,
PL, PT, RO,	RU, SC, SD, SE,	SG, SK, SL, SY, TJ, TM,	TN, TR, TT,
TZ, UA, UG,	US, UZ, VC, VN,	YU, ZA, ZM, ZW	
RW: GH, GM, KE,	LS, MW, MZ, SD,	SL, SZ, TZ, UG, ZM, ZW,	AM, AZ, BY,
KG, KZ, MD,	RU, TJ, TM, AT,	BE, BG, CH, CY, CZ, DE,	DK, EE, ES,
FI, FR, GB,	GR, HU, IE, IT,	LU, MC, NL, PT, RO, SE,	SI, SK, TR,
BF, BJ, CF,	CG, CI, CM, GA,	GN, GQ; GW, ML, MR, NE,	SN, TD, TG

CA 2464846	AA	20040311	CA 2003-2464846		20030829
AU 2003261826	A1	20040319	AU 2003-261826		20030829
BR 2003006208	Α.	20041013	BR 2003-6208		20030829
JP 2004323504	A2	. 20041118	JP 2003-308156		20030829
JP 3630676	B2	20050316			
CN 1617850	Α	20050518	CN 2003-802383		20030829
EP 1533292	A1	20050525	EP 2003-791414		20030829
R: AT, BE, CH,	DE,	DK, ES, FR,	GB, GR, IT, LI, LU, NL,	S	E, MC, PT,
IE, SI, LT,	LV,	FI, RO, MK,	CY, AL, TR, BG, CZ, EE,	H	U, SK
TR 200401413	T1	20050621	TR' 2004-200401413		20030829
ZA 2004003137	Α	20050425	ZA 2004-3137		20040423
NO 2004002584	Α	20040618	NO 2004-2584		20040618
US 2005059810	A1	20050317	US 2004-503185		20041012
PRIORITY APPLN. INFO.:			JP 2002-255604	Α	20020830
			JP 2003-107161	Α	20030410
			WO 2003-JP11041	W	20030829

OTHER SOURCE(S):

MARPAT 140:253571

GI

$$R^{1}$$
 $R^{2}$ 
 $R^{3}$ 
 $R^{4}$ 
 $R^{5}$ 
 $R^{5}$ 

Dibenzylamine compds. represented by the general formula (I) [R1, R2 = AB halo, NO2, cyano, C1-6 alkyl, halo-C1-6 alkyl; R3, R4, R5 = H, halo, each optionally halo-substituted C1-6 alkyl, C1-6 alkylthio, or C1-6 alkoxy; or R3 and R4 or R4 and R5 together with the carbon atoms bonded thereto form an (un) substituted halo- or heterocyclic ring; A = NR7R8; wherein R7, R8 = H, each (un)substituted C1-6 alkyl or C4-10 cycloalkyl, etc.; the ring B = aryl or heterocyclyl; R6 = H, halo, NO2, NH2, HO, cyano, acyl, C1-6 alkoxy, (un) substituted C2-6 alkenyl; n = an integer of 1-3 or prodrugs thereof or pharmaceutically acceptable salts thereof are prepared These compds. have selective and potent CETP inhibitory activity, which results in lowering intermediate-d. lipoprotein (IDL), very low d. lipoprotein (VLDL), and low d. lipoprotein (LDL) which promote arteriosclerosis, and increasing high d. lipoprotein (HDL), and are hence usable as, e.g., therapeutic or preventive drugs for hyperlipemia and arteriosclerosis. Thus, 17 mg NaH was added to a solution of 132 mg N-[3-(N-cyclopentylmethyl-Nethylamino) -5,6,7,8-tetrahydronaphthalen-2-ylmethyl]-(2-methyl-2H-tetrazol-5-yl)amine in 2 mL DMF, followed by adding 114 mg 3-bromomethyl-5trifluoromethylbenzonitrile, and the resulting mixture was stirred at room temperature overnight to give, after workup and silica gel chromatog., 44% 3-[[N-[3-(N-cyclopentylmethyl-N-ethylamino)-5,6,7,8-tetrahydronaphthalen-2ylmethyl]-N-(2-methyl-2H-tetrazol-5-yl)amino]methyl]-5trifluoromethylbenzonitrile (II). II in vitro inhibited the activity of CETP in whole blood plasma with IC50 of 0.08  $\mu M$ .

107133-36-8, Perindopril erbumine

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (antihypertensive, combination therapy; preparation of N-Ph or N-heterocyclyldibenzylamine compds. as inhibitors of cholesteryl ester transfer protein (CETP) for treatment or prevention of hyperlipemia and arteriosclerosis)

107133-36-8 HCAPLUS RN

1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-CN (ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

75-64-9 CRN CMF C4 H11 N

REFERENCE COUNT:

10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

HCAPLUS COPYRIGHT 2006 ACS on STN L17 ANSWER 37 OF 80

ACCESSION NUMBER:

2004:145230 HCAPLUS

DOCUMENT NUMBER:

141:218619

TITLE:

Rationale and design of a large-scale trial using nicorandil as an adjunct to percutaneous coronary intervention for ST-segment elevation acute myocardial infarction: Japan-working groups of acute myocardial infarction for the reduction of necrotic damage by a

K-ATP channel opener (J-WIND-KATP) AUTHOR (S): Minamino, Tetsuo; Kim, Jiyoong; Asakura, Masanori;

Shintani, Yasunori; Asanuma, Hiroshi; Kitakaze,

Masafumi

CORPORATE SOURCE:

J-WIND Investigators, Japan Foundation for Aging and Health for Medical Frontier Strategy Research by Health and Labor Sciences Research Grants, National

Cardiovascular Center, Suita, Japan

SOURCE:

Circulation Journal (2004), 68(2), 101-106

CODEN: CJIOBY; ISSN: 1346-9843

PUBLISHER:

Japanese Circulation Society

Journal DOCUMENT TYPE: English LANGUAGE:

Background: The benefits of percutaneous coronary intervention (PCI) in AB acute myocardial infarction (AMI) are limited by reperfusion injury. In animal models, nicorandil, a hybrid of an ATP-sensitive K+ (KATP) channel opener and nitrates, reduces infarct size, so the Japan-Working groups of acute myocardial Infarction for the reduction of Necrotic Damage by a K-ATP channel opener (J-WIND-KATP) designed a prospective, randomized, multicenter study to evaluate whether nicorandil reduces myocardial infarct size and improves regional wall motion when used as an adjunctive therapy for AMI. Methods and Results: Twenty-six hospitals in Japan are participating in the J-WIND-KATP study. Patients with AMI who are candidates for PCI are randomly allocated to receive either i.v. nicorandil or placebo. The primary end-points are (1) estimated infarct size and (2) left ventricular function. Single nucleotide polymorphisms (SNPs) that may be associated with the function of KATP-channel and the susceptibility of AMI to the drug will be examined Furthermore, a data mining method will be used to design the optimal combined therapy for post-myocardial infarction (MI) patients. Conclusions: It is intended that J-WIND-KATP will provide important data on the effects of nicorandil as an adjunct to PCI for AMI and that the SNPs information that will open the field of tailor-made therapy. The optimal therapeutic drug combination will also be determined for post-MI patients.

107133-36-8, Perindopril erbumine IT

> RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(nicorandil and cardiovascular agent for decreasing risk of cardiac events in patients with post-myocardial infarction)

107133-36-8 HCAPLUS RN

1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-CN(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CRN 75-64-9 CMF C4 H11 N

NH<sub>2</sub> | H<sub>3</sub>C-- C-- CH<sub>3</sub> | CH<sub>3</sub>

REFERENCE COUNT:

THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 38 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:145229 HCAPLUS

DOCUMENT NUMBER:

141:219275

TITLE:

Rationale and design of a large-scale trial using atrial natriuretic peptide (ANP) as an adjunct to percutaneous coronary intervention for ST-segment elevation acute myocardial infarction: Japan-working groups of acute myocardial infarction for the reduction of necrotic damage by ANP (J-WIND-ANP)

AUTHOR (S):

SOURCE:

Asakura, Masanori; Kim, Jiyoong; Minamino, Tetsuo; Shintani, Yasunori; Asanuma, Hiroshi; Kitakaze,

Masafumi

CORPORATE SOURCE:

J-WIND Investigators, Japan Society for the Promotion

of Science for Young Scientists, Osaka University

Graduate School of Medicine, Suita, Japan Circulation Journal (2004), 68(2), 95-100

CODEN: CJIOBY; ISSN: 1346-9843

PUBLISHER: Japanese Circulation Society
DOCUMENT TYPE: Journal

DOCUMENT TYPE: LANGUAGE:

TYPE: Journal English

Background: The benefits of percutaneous coronary intervention (PCI) in acute myocardial infarction (AMI) are limited by reperfusion injury. In animal models, atrial natriuretic peptide (ANP) reduces infarct size, so the Japan-Working groups of acute myocardial Infarction for the reduction of Necrotic Damage by ANP (J-WIND-ANP) designed a prospective, randomized, multicenter study, to evaluate whether ANP as an adjunctive therapy for AMI reduces myocardial infarct size and improves regional wall motion. Methods and Results: Twenty hospitals in Japan will participate in the J-WIND-ANP study. Patients with AMI who are candidates for PCI are randomly allocated to receive either i.v. ANP or placebo administration. The primary end-points are (1) estimated infarct size ( $\Sigma$ -creatine kinase and troponin T) and (2) left ventricular function (left ventriculograms). Single nucleotide polymorphisms (SNPs) that may be associated with the function of ANP and susceptibility of AMI will be examined Furthermore, a data mining method will be used to design the optimal combinational therapy for post-MI patients. Conclusions: J-WIND-ANP will provide important data on the effects of ANP as an adjunct to PCI for AMI and the SNPs information will open the field of tailor-made therapy. The optimal therapeutic drug combination will also be determined for post-MI patients.

IT 107133-36-8, Perindopril erbumine
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(drug therapy for data mining of cardiovascular therapy combination; large-scale trial rationale and design using atrial natriuretic peptide (ANP) as adjunct to PCI for ST-segment elevation acute myocardial infarction patients)

107133-36-8 HCAPLUS RN

CN1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM

82834-16-0 CRN CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM

75-64-9 CRN C4 H11 N CMF

REFERENCE COUNT:

18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 39 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:120696 HCAPLUS

DOCUMENT NUMBER:

140:169624

TITLE:

Pharmaceutical formulations comprising highly soluble

INVENTOR(S):

Vaya, Navin; Karan, Rajesh Singh; Nadkarni, Sunil

Sadanand

PATENT ASSIGNEE(S):

Torrent Pharmaceuticals Limited, India

SOURCE:

PCT Int. Appl., 40 pp.

DOCUMENT TYPE:

CODEN: PIXXD2 Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

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PATENT NO.
                        KIND
                               DATE
                                           APPLICATION NO.
                                                                  DATE
                        _ _ _ _
                                           ______
    WO 2004012699
                               20040212
                                           WO 2003-IN261
                         A2
                                                                  20030801
    WO 2004012699
                               20040401
                        A3
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
            CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
            GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
            LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
            PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
            TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
            KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES;
            FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
            BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                           AU 2003-274680
                         A1
                               20040223
                                                                  20030801
PRIORITY APPLN. INFO.:
                                           IN 2002-MU696
                                                              A 20020805
                                           IN 2002-MU698
                                                              A 20020805
                                           IN 2003-MU81
                                                              A 20030122
                                           WO 2003-IN261
                                                               W 20030801
    The present invention provides a novel modified release dosage form
```

AB The present invention provides a novel modified release dosage form comprising a highly soluble drug, which utilizes dual retard technique to effectively reduce the quantity of release controlling agents and a process for preparing the dosage form. Specifically, the dosage form comprises micro matrix particles containing a highly soluble drug and one or

more

hydrophobic release controlling agents and coated micro matrix particles with one or more hydrophobic release controlling agents. The invention also relates to the use of dual retard technique to effectively control the release rate of modified release active ingredient by using small quantity of release controlling agents. The invention also provides a novel process for preparing the novel formulations of the invention. The invention further provides a method of treating an animal, particularly a human in need of treatment utilizing the active agents, comprising administering a therapeutically effective amount of composition or solid oral dosage form according to the invention to provide administration of active ingredients.

IT 107133-36-8, Perindopril erbumine

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (pharmaceutical formulations comprising highly soluble drugs)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CRN 75-64-9 C4 H11 N CMF

HCAPLUS COPYRIGHT 2006 ACS on STN L17 ANSWER 40 OF 80

2004:106709 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 140:395632

Utilization of maltodextrin based enantioselective, TITLE:

> potentiometric membrane electrodes for the enantioselective assay of S-perindopril

Ozoemena, Kenneth I.; Stefan, Raluca-Ioana; van AUTHOR (S):

Staden, Jacobus F.; Aboul-Enein, Hassan Y.

Department of Chemistry, University of Pretoria, CORPORATE SOURCE:

Pretoria, 0002, S. Afr.

Talanta (2004), 62(4), 681-685 CODEN: TLNTA2; ISSN: 0039-9140 SOURCE:

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal LANGUAGE: English

Enantioselective, potentiometric membrane electrodes (EPMEs) based on AB carbon paste impregnated with different maltodextrins {dextrose equivalent (DE) 4.0-7.0 (I), 13.0-17.0 (II) and 16.5-19.5 (III) as chiral selectors for the assay of S-perindopril is described. The proposed electrodes could be reliably employed in the assay of S-perindopril raw material and from its pharmaceutical formulation, Coversyl tablets. The electrode based on maltodextrin (I) showed the best enantioselectivity and time-stability. The surfaces of the electrodes are easily renewable by simply polishing on an alumina paper.

107133-36-8, Coversyl IT

RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(maltodextrin based enantioselective, potentiometric membrane electrodes for the enantioselective assay of S-perindopril)

RN107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-

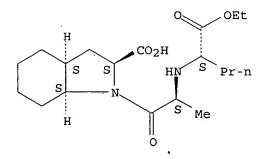
(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.

with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

. 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 41 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2004:36709 HCAPLUS

DOCUMENT NUMBER:

140:59939

TITLE:

Method for synthesis of perindopril and its

pharmaceutically acceptable salts

INVENTOR(S):

Dubuffet, Thierry; Lecouve, Jean-Pierre

PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.

SOURCE:

Eur. Pat. Appl., 7 pp. CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

1 1 0 11 0

PATEN	PATENT NO.				Ď	DATE		Ž	APPL	ICAT	ION I	. O <i>v</i>		D	ATE	
					-											
EP 13	EP 1380591					2004	0114	]	EP 2	003-	2921	32		20	0030	829
EP 138	P 1380591			B1		2005	1116									
R	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
	IE, SI, LT			LV,	FI,	RO;	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK	
AT 310012				E		2005	1215		<b>ΔΤ 2</b>	003-	2921	32		21	0030	829

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WO 2005023842
                             A1 ·
                                     20050317
                                                      WO 2004-FR2197
          AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
           CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
                     GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
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                     LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
           LK, LR,
                     OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
           NO, NZ,
                           TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
           TJ, TM,
                     TN,
          BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
     RW: BW, GH,
           SN, TD, TG
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PRIORITY APPLN. INFO.:

EP 2003-292132

A 20030829

OTHER SOURCE(S):

MARPAT 140:59939

GI

- AB A method for the synthesis of perindopril and its tert-Bu amine salt is described. The steps are: coupling of hexahydroindolecarboxylate I with propionyl chloride II in CH2Cl2, followed by Boc deprotection with TFA and reaction with Et 2-oxopentanoate and hydrogenation over Pd/C. Addition of tert-butylamine to perindopril provides the salt.
- IT 107133-36-8P
  RL: IMF (Industrial manufacture); SPN (Synthetic preparation); THU
   (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
   (Uses)

(preparation of perindopril and tert-butylamine salt)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

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CM
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CRN: 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 42 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

3

ACCESSION NUMBER:

2004:36708 HCAPLUS

DOCUMENT NUMBER:

140:59938

TITLE:

Method for synthesis of perindopril and its

pharmaceutically acceptable salts

INVENTOR(S):

Dubuffet, Thierry; Lecouve, Jean-Pierre

PATENT ASSIGNEE(S):

Les Laboratoires Servier, Fr. Eur. Pat. Appl., 9 pp.

SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.				•	KIND		DATE		APPLICATION NO.						DATE			
						_									-			
EP 1380590					A1		20040114		EP 2003-292131						20030829			
	R:	ΑT,	ΒĒ,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙT,	LI,	LU,	NL,	SE,	MC,	PT,	
		ΙĒ,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK		
WO 2	WO 2005023841				A1 20050317			WO 2004-FR2196 .						20040827				
	W:	ΑE,	AG,	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	ΒY,	BZ,	CA,	CH,	
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		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KΡ,	KR,	ΚZ,	LC,	
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,	
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	
		ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW	
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	
		AZ,	BY,	KG,	ΚZ,	MD,	RU,	TJ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	
		EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,	IT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,	
		SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	
			TD,															
RITY	APPLN. INFO.: EP 2003-292131											7	A 20030829					

PRIOR

OTHER SOURCE(S): MARPAT 140:59938

A method for the synthesis of perindopril and its pharmaceuticallyacceptable salts involves coupling of (2S)-2,3,4,5,6,7-hexahydro-1Hindolecarboxylic acid or its benzyl ester with R2-L-Ala-X (R2 is a protective group, X is halo), followed by deprotection, reaction with (R)-PrCH(G)CO2Et (G is Cl, Br, I, or tosyloxy), and catalytic hydrogenation. Addition of tert-butylamine to perindopril provides the salt. 107133-36-8P IT

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of perindopril and tert-butylamine salt)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.

with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 43 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2003:1007353 HCAPLUS

DOCUMENT NUMBER:

140:47547

TITLE:

Microcapsules for delayed and controlled release of

perindopril

INVENTOR (S):

Huet de Barochez, Bruno; Wuthrich, Patrick; Legrand,

Valerie; Castan, Catherine; Meyrueix, Remi

PATENT ASSIGNEE(S):

Les Laboratoires Servier, Fr.

SOURCE:

Fr. Demande, 26 pp.

CODEN: FRXXBL

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO.

DATE

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FR 2841140
                          Α1
                                20031226
                                            FR 2002-7778
                                                                    20020624
     FR 2841140
                          В1
                                20041001
    CA 2491172
                          AA
                                20031231
                                            CA 2003-2491172
                                                                    20030624
     WO 2004000286
                          A1
                                20031231
                                            WO 2003-FR1931
                                                                    20030624
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             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
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             FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
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    AU 2003260620
                                20040106
                                            AU 2003-260620
                          A1
                                                                    20030624
    BR 2003012026
                                20050322
                          Α
                                            BR 2003-12026
                                                                    20030624
    EP 1515704
                                20050323
                                            EP 2003-760778
                          A1
                                                                    20030624
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     JP 2005533079
                          T2
                                          . JP 2004-514980
                                20051104
                                                                    20030624
    NO 2005000163
                          Α
                                20050112
                                            NO 2005-163
                                                                    20050112
PRIORITY APPLN. INFO.:
                                            FR 2002-7778
                                                                 A 20020624
                                            WO 2003-FR1931
                                                                 W · 20030624
    Microcapsules allowing the delayed and controlled release of perindopril,
AB
    or one of its salts, intended for oral administration is prepared
    Microcapsules were made from tert-butylamine perindopril 700, Eudargit
    L100 37, and hydrogenated palm oil 56 q and their dissoln. rates were
    studied.
     107133-36-8
TT
    RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (microcapsules for delayed and controlled release of perindopril)
     107133-36-8 HCAPLUS
RN
CN
     1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-
     (ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.
    with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)
    CM
          1
    CRN 82834-16-0
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Absolute stereochemistry. Rotation (-).

C19 H32 N2 O5

CM 2

CMF

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 44 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

2003:985781 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 140:28049

Method for synthesis of perindopril and its TITLE:

pharmaceutically acceptable salts [2003/26]

INVENTOR(S): Dubuffet, Thierry; Lecouve, Jean-Pierre

PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.

Eur. Pat. Appl., 8 pp. SOURCE:

CODEN: EPXXDW DOCUMENT TYPE: Patent

French LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA'	TENT	NO.			KINI	) 1	DATE		1	APPL:	ICAT	ON I	ЙО.		D	ATE	
	1371								1	EP 20	003-2	29213	33		2	0030	329
EP	1371				B1		2005			an.	T (T)		T TT	NTT	CID.	ма	nm
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		ΙE,	SI;	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK	
AT	3064	96			E		2005:	1015	Ī	AT 2	003-2	2921:	33		2	0030	329
WO	2005	0238	43		A1		2005	0317	1	NO 2	004-1	FR21	98		2	0040	327
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		GE.	GH.	GM.	HR.	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,
							LV,										
							PL,										
							TZ,										
	RW:			-			MW,										
	24						RU,										
							GR,										
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		•	TD,														000
PRIORIT										EP 2	003-	2921	33	4	A 2	0030	829
OTHER S	OURCE	(S):			MAR	PAT	140:	2804	9								

GI

- AB A method for the synthesis of perindopril (I) and its tert-Bu amine salt is described. The steps are: coupling of (hexahydro)indolecarboxylate II with propionyl chloride III in CH2Cl2, followed by Boc deprotection with TFA, reaction with Et 2-oxopentanoate under reductive conditions, and removal of benzyl ester by hydrogenation to give I. Addition of tert-Bu amine to I provides the salt.
- IT 107133-36-8P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(preparation of perindopril and its tert-Bu amine salt)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 45 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

REFERENCE COUNT:

2003:947713 HCAPLUS

DOCUMENT NUMBER:

139:381760

TITLE:

Method for synthesis of perindopril and its

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS

pharmaceutically acceptable salts

INVENTOR(S):

Dubuffet, Thierry; Lecouve, Jean-Pierre Les Laboratoires Servier, Fr.

PATENT ASSIGNEE(S):

Eur. Pat. Appl., 8 pp.

SOURCE:

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.					) 1	DATE		7	APPL:	[CAT]	ION I	. O <i>l</i>		D	ATE	
EP	1367 1367	061					20031 2006		]	EP 2	003-2	29160	01		20	0030	530
•	R:	AT, IE,	BE, SI,	,	•		•	•	•								PT,
	3150 2004		21														
WO	2005																
	W:	ΑE,			-				-								
•			CO,														
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KΡ,	KR,	KZ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NΑ,	NI,
		NO,	ΝZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
		ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UΖ,	VC,	VN,	YU,	ΖA,	ZM,	zw
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		ΑZ,	BY,	KG,	ĶΖ,	MD,	RU,	ΤĴ,	TM,	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
		EE,	ES,	FI,	FR,	GB,	GR,	ΗU,	ΙE,	IT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,
		SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,
		SN,	TD,	TG													
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PRIORITY APPLN. INFO.:

EP 2003-291601 A 20030630 WO 2004-FR1637 W .20040628

OTHER SOURCE(S): CASREACT 139:381760; MARPAT 139:381760

AB A method for the synthesis of perindopril and its pharmaceutically-acceptable salts (e.g., the tert-butylamine) involves cyclocondensation reaction of N-[(S)-1-carbethoxybutyl]-(S)-alanine with sulfinyl chlorides R1SOCl (R1 = imidazolyl, benimidazolyl, or tetrazolyl) to give Et (2S)-2-[(4S)-4-methyl-2,5-dioxo-1,2,3-oxathiazolidin-3-yl]pentanoate, which is amidated with (2S)-2,3,4,5,6,7-hexahydro-1H-indole-2-carboxylic acid and hydrogenated over 10% Pt/C to give perindopril.

IT 107133-36-8P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(synthesis of perindopril via cyclocondensation of carbethoxybutylalanine with imidazolesulfinyl chloride)

RN 107133-36-8 HCAPLUS

1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-CN (ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 46 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2003:909172 HCAPLUS

DOCUMENT NUMBER:

139:396166

TITLE:

Method for synthesis of perindopril and its

pharmaceutically acceptable salts

INVENTOR(S):

Dubuffet, Thierry; Lecouve, Jean-Pierre

PATENT ASSIGNEE(S):

Les Laboratoires Servier, Fr.

SOURCE:

Eur. Pat. Appl., 8 pp.

CODEN: EPXXDW

DOCUMENT TYPE: LANGUAGE :

Patent

FAMILY ACC. NUM. COUNT:

French

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1362864	A1	20031119	EP 2003-291600	20030630
R: AT, BE, CH,	DE, DK	, ES, FR, GB	GR. IT. LI. LU. NL.	SE. MC. PT.

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IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                                           AU 2004-255899
                                20050120
    AU 2004255899
                          AΊ
    WO 2005005461
                          A2
                                20050120
                                            WO 2004-FR1638
                                                                   20040628
    WO 2005005461
                          A3
                                20050331
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
             EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
             SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
             SN, TD, TG
PRIORITY APPLN. INFO.:
                                            EP 2003-291600
                                                                A 20030630
                                            WO 2004-FR1638
                                                                   20040628
                                                                 W
                         CASREACT 139:396166; MARPAT 139:396166
OTHER SOURCE(S):
    Perindopril and its pharmaceutically acceptable salts (e.g.,
AB
    tert-butylamine salt) are prepared by the cyclocondensation reaction of
    N-[(S)-carboethoxy-1-butyl]-(S)-alanine with a carbonyl compound X1COX2 (X1,
    X2 = leaving group; e.g., 1,1'-carbonyldiimidazole) to give Et
     (2S) -2-[(4S)-4-Methyl-2,5-dioxo-1,3-oxazolidin-3-yl]pentanoate which is
    amidated with (2S)-2,3,4,5,6,7-hexahydro-1H-indole-2-carboxylic acid in
    the presence of an acid (e.g., hydrochloric acid) to give
     (2S) -1-[(2S) -2-[(1S) -1-(ethoxycarbonyl) butylamino] propionyl] -2,3,4,5,6,7-
    hexahydro-1H-indole-2-carboxylic acid which is hydrogenated with a 10%
    Pt/C catalyst to give perindopril which is then salified with
     tert-butylamine to give perindopril tert-butylammonium salt.
IT
     107133-36-8P
    RL: SPN (Synthetic preparation); PREP (Preparation)
        (method for synthesis of perindopril and its pharmaceutically
        acceptable salts)
     107133-36-8 HCAPLUS
RN
     1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-
CN
     (ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.
    with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)
    CM
          1
         82834-16-0
    CRN
    CMF C19 H32 N2 O5
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Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 47 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2003:609507 HCAPLUS

DOCUMENT NUMBER:

139:149930

TITLE:

Process for the preparation of high purity perindopril

and intermediates useful in its synthesis

INVENTOR (S):

Simig, Gyula; Mezei, Tibor; Porcs-Makkay, Marta;

Mandi, Attila

PATENT ASSIGNEE(S):

Les Laboratoires Servier, Fr.

SOURCE:

Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DOCUMENT TYPE: LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

P	ATENT						•									ATE	
-																	
E	P 1333																
	R:						ES,					ĻΙ,	LU,	NL,	SE,	MC,	PT,
_		-		-			RO,		•	,							
C.	A 2474	1003			, AA		2003	0807	•	CA 2	003-	2474	003		2	0030:	129
	0 2003								1	WO 2	003-	IB69	1	٠.	2	0030:	129
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		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,
		LS,	LT,	·LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	ΝO,	NZ,	OM,	PH,
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							VN,					•	•	•	•	•	•
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							TM,										
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	S 2005																
	P 2005	-															
	O 2004																
	G 1088			•	Α.		2005	053I								0040	
PRIORI	IX APE	,ПП.	TNEO	. :							002-						
										WO 2	003-	IB69	1	1	v 2	0030	129
OTHER	SOURCE	:(S):			MAR	TA9	139:	1499	30								

AB The invention relates to 1-[2(S)-[1(S)-(ethoxycarbonyl)butylamino]propiony l]-(3aS,7aS)octahydroindole-2(S)-carboxylic acid (perindopril) and its

tert-butylamine salt, free of contaminants derivable from dicyclohexylcarbodiimide, and a process for their synthesis. The invention also relates to N-[1-(ethoxycarbonyl)butyl]-N-(alkoxycarbonyl)alanine intermediates used in the synthesis of perindopril, a known ACE inhibitor. Thus, N-[1-(ethoxycarbonyl)butyl]-N-(ethoxycarbonyl)alanine, prepared by ethoxycarbonylation of N-[1-(ethoxycarbonyl)butyl]alanine, was treated with thionyl chloride in CH2Cl2 and acylated by perhydroindole-2-carboxylic acid in THF at reflux for 4-4.5 h. The product was treated with tert-butylamine to afford 55% perindopril eburmine.

IT 107133-36-8P, Perindopril ebumine

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(process for preparation of high purity perindopril and intermediates useful in its synthesis)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 48 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2003:595532 HCAPLUS

DOCUMENT NUMBER:

139:312571

TITLE:

Utility of copper(II) oxide as a packed reactor in flow injection assembly for rapid analysis of some

angiotensin converting enzyme inhibitors Emara, Samy; El-Gindy, Alaa; El-Shorbagi,

AUTHOR (S):

Abdel-Nasser; Hadad, Ghada

CORPORATE SOURCE:

Faculty of Pharmacy, Department of Analytical Pharmaceutical Chemistry, Suez Canal University,

Ismialia, 41522, Egypt

SOURCE:

Analytica Chimica Acta (2003), 489(1), 115-123

CODEN: ACACAM; ISSN: 0003-2670

PUBLISHER:

Elsevier Science B.V.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB A new simple, sensitive, rapid and precise flow injection (FI) procedure based on the formation of copper complexes with some angiotensin converting enzyme (ACE) inhibitors has been developed and evaluated for the anal. of lisinopril (LN), enalapril maleate (EP), ramipril (RP) and perindopril tert-butylamine (PD). In this method; samples were injected into a flowing stream of distilled-deionized water, carried through the packed reactor of CuO for derivatization followed by UV detection. flow rate was 1.5 mL min-1 and column temperature was ambient (25 °C). Lisinopril was injected directly into the flowing stream and the detector response was measured at 262 nm. The hydrolysis products of enalapril maleate, ramipril and perindopril tert-butylamine in 0.2N NaOH were injected after neutralization with 1N HCl and the detector response was measured at 272, 265 and 252 nm, resp. The developed method was successfully applied to the determination of tested drugs in pharmaceutical prepns. at a sampling rate of 60 samples h-1 and a recovery near 100% for all compds.

IT 107133-36-8

> RL: ANT (Analyte); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(copper(II) oxide as a packed reactor in flow injection assembly for rapid anal. of some angiotensin converting enzyme inhibitors)

RN107133-36-8 HCAPLUS

1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 7

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

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CM
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CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 49 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2003:573218 HCAPLUS

DOCUMENT NUMBER:

139:122793

TITLE:

Oral pharmaceutical composition containing perindopril

Wuthrich, Patrick; Rolland, Herve; Julien, Marc

PATENT ASSIGNEE(S):

Les Laboratoires Servier, Fr.

SOURCE:

Fr. Demande, 11 pp. CODEN: FRXXBL

DOCUMENT TYPE: ,

INVENTOR(S):

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.											ICAT:					ATE .		
		2834															0020	123	
	FR	2834	893			B1		2004	0227										
	CA	2473	205			AA		2003	0731		CA 2	003-	24732	205		. 20	0030	122	
	WO	2003	0616	91		A1		2003	0731	1	WO 2	003-	FR20	0		2	0030	122	
						AM,													
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			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	ΚP,	KR,	KZ,	LC,	LK,	LR,	
		•	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,	
			PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,	TZ,	
			UA,	ŪĠ,	US,	UΖ,	VC,	VN,	YU,	ZA,	ZM,	ZW							
		RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,	
			KG,	KZ,	MD,	RU,	ΤJ,	TM,	AT,	ΒE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	
			FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	SI,	SK,	TR,	BF,	
			ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG		
	ΕP	1467	750			A1		2004	1020		EP 2	003-	7317	36		2	0030	122	
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		2003																	
		2005																	
		2005																	
	_	1658				Α													
		5338																	
		2004																	
		2004				A		2004	0820							_	0040		
PRIO	RIT	Y APP	LN.	INFO	.:						-	002-				A 2			
											WO 2	003-	FR20	0		W 2	0030	122	

An oral dispersible solid pharmaceutical composition contains perindopril, AB lactose, and starch. A tablet contained perindopril tert-butylamine 4,

Starlac 94, sodium stearyl fumarate 1.5, and colloidal silica 0.5 mg.

IT 107133-36-8

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (oral pharmaceutical composition containing perindopril)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 50 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2003:570833 HCAPLUS

DOCUMENT NUMBER:

139:111682

TITLE:

SOURCE:

Combined use of a GLP-1 compound and a modulator of

diabetic late complications

INVENTOR(S):

Knudsen, Lotte Bjerre; Selmer, Johan

PATENT ASSIGNEE(S):

Novo Nordisk A/S, Den. PCT Int. Appl., 22 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

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APPLICATION NO.
                                                                      DATE
                          KIND
                                 DATE
     PATENT NO.
                          _ _ - -
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                                 20030724
                                              WO 2002-DK888
                           A2
                                                                       20021220
     WO 2003059372
                                 20040325
                           A3
     WO 2003059372
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             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ,
             CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                             AU 2002-351753
     AU 2002351753
                           A1
                                 20030730
                                                                       20021220
                                              EP 2002-787467
     EP 1461070
                           A2
                                 20040929
                                                                       20021220
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
                           T2
                                 20050609
                                              JP 2003-559533
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     JP 2005516968
     US 2003144206
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                                 20030731
                                              US 2002-328282
                                                                       20021223
                                              DK 2001-1969
PRIORITY APPLN. INFO.:
                                                                      20011229
                                              DK 2002-760
                                                                   Α
                                                                      20020517
                                              DK 2001-969
                                                                   Α
                                                                       20011229
                                              US 2002-350087P
                                                                   Ρ
                                                                       20020117 .
                                              WO 2002-DK888
                                                                   W
                                                                       20021220
     Methods and uses for treatment of diabetic late complications comprising
AB
     administration of a GLP-1 compound and a modulator of diabetic
     complications.
     107133-36-8, Perindopril erbumine
IT
     RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (combined use of a GLP-1 compound and a modulator of diabetic late
        complications)
RN
     107133-36-8 HCAPLUS
     1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-
CN
     (ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.
     with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)
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CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

L17 ANSWER 51 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2003:488613 HCAPLUS

DOCUMENT NUMBER:

139:22503

TITLE:

Method for the synthesis of perindopril and its

pharmaceutically-acceptable salts

INVENTOR(S):

Dubuffet, Thierry; Lecouve, Jean-pierre

PATENT ASSIGNEE(S):

Les Laboratoires Servier, Fr.

SOURCE:

Eur. Pat. Appl., 9 pp. CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

,	PA"	rent :	NO.			KIN	)	DATE			APPL		ION I			D	ATE	
		1321 1321				A1 B1		2003			EP 2					20	0030	312
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•			ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR,	BG,	CZ,	EE,	HU,	SK	
	AT	2948	14			E		2005	0515		AT 2	003-	2906	05		20	0030	312
	PT	1321	471			$\mathbf{T}$		2005	0729		PT 2	003-	2906	05		20	0030	312
	ES	2240	919			Т3		2005	1016		ES 2	003-	3290	605		20	0030	312
	WO	2004	0832	38 .		A1		2004	0930	•	WO 2	004-	FR59	4		20	0040	312
		W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
			GE,	GH,	GM,	HR,	ΗU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	KΖ,	LC,
						-		LV,			-	-	-					•
			-	-	-	-		PL,	-	-	-	-			-	-		
			ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW
		RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	ŞL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	AZ,
								ТJ,										
								HU,										
					BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,
			TD,													•		
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	2,	7-oxe	pane	dion	e by	a m	ulti	step	pro	cedu	re,	i.e.	, re	acti	on w	ith	_	

AB m (R)-XCH2CH(NHBoc)CO2CH2Ph (X is Br or iodo; Boc is tert-butoxycarbonyl), cyclization of deprotected 2-amino-4-oxononanedioic acid derivative, Ti-catalyzed coupling to form the indole ring system, reaction with N-[(S)-1-carbethoxybutyl]-(S)-alanine, and catalytic hydrogenation.example, perindopril was obtained with enantiomeric purity 99%.

IT 107133-36-8P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP

(Preparation)

(method for synthesis of perindopril and its pharmaceuticallyacceptable salts)

107133-36-8 HCAPLUS

RNCN

1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.

with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

1 . CM

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

HCAPLUS COPYRIGHT 2006 ACS on STN ANSWER 52 OF 80

ACCESSION NUMBER:

2003:319257 HCAPLUS

DOCUMENT NUMBER:

138:343856

TITLE:

Buccal sprays or capsules containing cardiovascular or

.renal drugs

INVENTOR (S):

Dugger, Harry A.

PATENT ASSIGNEE(S):

USA

SOURCE:

U.S. Pat. Appl. Publ., 15 pp., Cont.-in-part of U.S.

Ser. No. 537,118.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 19

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KIND
                                DATE
                                            APPLICATION NO.
                                                                   DATE
    PATENT NO.
                         ----
                                20030424
                                            US 2002-230075
                                                                    20020829
    US 2003077229
                         A1
                                19990408
                                            WO 1997-US17899
                                                                   19971001
    WO 9916417
                         A1
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            DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ,
            LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,
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            UZ, VN, YU, ZW
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    EP 1029536
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    CA 2496769
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    WO 2004019909
                          A2
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    WO 2004019909
                          A3
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             PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
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    AU 2003270014
                          A1
                                20040319
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                                            EP 2003-751909
    EP 1536769
                          A2
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                                                                    20030827
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             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
    JP 2006502147
                          T2
                                20060119
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    US 2005025713
                          A1
                                20050203
                                            US 2004-928979
                                                                    20040827
PRIORITY APPLN. INFO.:
                                            WO 1997-US17899
                                                                 A2 19971001
                                                                 A2 20000329
                                            US 2000-537118
                                            EP 1997-911621
                                                                 A3 19971001
                                            US 2002-230075
                                                                 A 20020829
                                            WO 2003-US26853
                                                                W 20030827
    Buccal aerosol sprays or capsules using polar and non-polar solvent have
AB
    now been developed which provide biol. active compds. for rapid absorption
    through the oral mucosa, resulting in fast onset of effect. The buccal
    polar compns. of the invention comprise formulation A: aqueous polar solvent,
    active compound, and optional flavoring agent; formulation B: aqueous polar
    solvent, active compound, optionally flavoring agent, and propellant;
    formulation C: non-polar solvent, active compound, and optional flavoring
    agent; and formulation D: non-polar solvent, active compound, optional
    flavoring agent, and propellant. Thus, a polar lingual spray contained
    isoproterenol-HCl 0.5-6, water 50-75, EtOH 5-10, PEG 5-15, sorbitol
    0.4-1.0, aspartame 0.04-0.1, and flavors 2-3%.
    107133-36-8, Perindopril erbumine
IT
    RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
        (buccal sprays or capsules containing cardiovascular or renal drugs)
RN
    107133-36-8 HCAPLUS
    1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-
CN
     (ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.
```

with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

L17 ANSWER 53 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2003:173469 HCAPLUS

DOCUMENT NUMBER:

138:215307

TITLE:

Drugs containing chymase inhibitor and ACE inhibitor

as the active ingredients

INVENTOR(S):

Urata, Hidenori; Hase, Naoki; Tsuchiya, Naoki

PATENT ASSIGNEE(S): SOURCE: Teijin Limited, Japan PCT Int. Appl., 93 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

1

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PAT	TENT	NO.			KIN	D 1	DATE		i	APPL	ICAT	ION I	. OV		D	ATE	
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		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,
		PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TN,	TR,	TT,	TZ,
		UA.	UG.	US.	UZ.	VC.	VN.	YU.	ZA.	ZM.	ZW.	AM.	AZ.,	BY.	KG.	KZ.	MD.

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RU, TJ, TM
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             NE, SN, TD, TG
     CA 2442761
                            AA
                                  20030306
                                               CA 2002-2442761
                                                                         20020826
     EP 1419785
                            Α1
                                  20040519
                                               EP 2002-760743
                                                                        20020826
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
                                  20040811
                                               CN 2002-812646
     CN 1520314
                            Α
                                                                         20020826
     US 2004122042
                            A1
                                  20040624
                                               US 2003-474334
                                                                         20031008
PRIORITY APPLN. INFO.:
                                               JP 2001-254120
                                                                        20010824
                                               WO 2002-JP8572
                                                                     W
                                                                        20020826
OTHER SOURCE(S):
                           MARPAT 138:215307
     It is intended to provide drugs efficacious in treating hypertension,
     heart diseases (megalocardia, heart failure, myocardial infarction, etc.),
     cerebral attack, nephritis and the like. Namely, remedies for circulatory
     diseases wherein a chymase inhibitor and an ACE inhibitor can be used
```

simultaneous occurrence of chymase inhibition and ACE inhibition. IT 107133-36-8, Perindopril erbumine

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(drugs containing chymase inhibitor and ACE inhibitor as the active ingredients for treatment of cardiovascular diseases)

together; and a method of treating circulatory diseases associated with the

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS 17 REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

HCAPLUS COPYRIGHT 2006 ACS on STN L17 ANSWER 54 OF 80

ACCESSION NUMBER:

2003:77804 HCAPLUS

DOCUMENT NUMBER:

138:107004

TITLE:

A process for the preparation of perindopril, its

analogs and salts using 2,5-dioxooxazolidine

intermediate compounds

INVENTOR (S): PATENT ASSIGNEE(S): Cid, Pau

SOURCE:

Adir, Fr. Eur. Pat. Appl., 11 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	TENT 1	NO.			KINI	)	DATE			APPL	ICAT:	I NOI	10.		D	ATE	
										- <b></b> -					_		
EP	1279									EP 2	002-	1626	2	•	. 2	0020	/23
EP	1279						2003										
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		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	ΑL,	TR,	BG,	CZ,	EE,	SK	•	
WO	2003	01014	42		A2		2003	0206		WO 2	002-	EP82:	23		2	0020	723
WO	2003	0101	42		A3		2003	0828									
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		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,
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																TT,	
							YU,				•	•	W.	•			
	RW:	•	,			•	•	-			TZ.	UG,	ZM,	ZW,	AM,	AZ,	BY,
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BR	2002						2004								2	20020	723
	1529				A		2004									20020	723
	2005						2005									20020	723
7.Δ	2004	0003	23		Δ		2005									20040	
	2004															20040	712
PRIORIT							2001	1200			001-					20010	
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MARPAT 138:107004 OTHER SOURCE(S):

Perindopril [(2S, 3aS, 7aS) -1-[(2S) -2-[(1S) -1-(ethoxycarbonyl)butylamino]pro pionyl]oc tahydro-1H-indole-2-carboxylic acid] or its analogs or salts were prepared by treating RcCH(CO2Ra)NHCHRbCO2H (Ra, Rb = C1-4 alkyl, Rc = Cl-6alkyl) with X2C:O ( X is a leaving group) to give a 2,5-dioxooxazolidine, which reacts with octahydro-1H-indole-2-carboxylic acid or ester to give the desired product. In an example, N,N'-carbonyldiimidazole was added to a suspension of N-[(S)-1carbethoxybutyl]-(S)-alanine in CH2Cl2 and the mixture kept at 0° for

1 h. (2S,3aS,7aS)-octahydroindole-2-carboxylic acid was added at -5°C and the solution kept at this temperature for 1 h to give 80% perindopril (isolated as the tert-butylamine salt).

IT 107133-36-8P, Perindopril erbumine

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(process for preparation of perindopril using dioxooxazolidine intermediate)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S, 3aS, 7aS)-, compd.

with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

L17 ANSWER 55 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2002:971053 HCAPLUS

DOCUMENT NUMBER:

138:33361

TITLE:

Stroke recurrence inhibitor

INVENTOR(S):

Ishigai, Hiroshi; Mori, Tomohiro; Shibano, Toshiro

PATENT ASSIGNEE(S):

Daiichi Seiyaku Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent Japanese

LANGUAGE:

Japan

FAMILY ACC. NUM. COUNT: 1

PATENT NO. KIND DATE APPLICATION NO. DATE ----\_\_\_\_\_\_ -------------------A2 JP 2001-178232 20010613 JP 2002370981 20021224 JP 2001-178232 20010613 PRIORITY APPLN. INFO.: OTHER SOURCE(S): MARPAT 138:33361

AB Claimed is a stroke recurrence inhibitor containing an octahydroindole-2-carboxylic derivative (Markush structure given) as active ingredient. Also claimed is a stroke recurrence inhibitor containing perindopril as active ingredient. Also claimed is a stroke recurrence inhibitor containing perindopril erbumine as active ingredient. The bioactivities of perindopril erbumine were demonstrated.

IT 107133-36-8, Perindopril erbumine

RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (bioeffect of perindopril as stroke recurrence inhibitor)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

L17 ANSWER 56 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2002:964185 HCAPLUS

DOCUMENT NUMBER:

138:19502

TITLE:

Combination of a PTPase inhibitor and an ACE inhibitor to lower the risk of cardiovascular disease and

cardiovascular events in a mammal experiencing or

subject to type II diabetes or syndrome X Zhang, Danyi; Meng, Xu; Kotake, Alvin Norio

INVENTOR(S): Zhang, Danyi; Meng, Xu; Kotake, Alv PATENT ASSIGNEE(S): Wyeth, John, and Brother Ltd., USA

SOURCE: PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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																	SE,		
			BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG	
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PRIO	RITY	APP	LN.	INFO	. :						US 2	001-	2964	66P		P 2	0010	607	
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IT 107133-36-8, Perindopril-tert-butylamine

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(PTPase inhibitor-ACE inhibitor combination to lower risk of cardiovascular disease or cardiovascular event in mammal experiencing or subject to type II diabetes or syndrome X)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 57 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

5

ACCESSION NUMBER:

2002:574955 HCAPLUS

DOCUMENT NUMBER:

137:129903

TITLE:

Combinations of azetidinone sterol absorption inhibitor(s) with cardiovascular agent(s) for the

treatment of vascular conditions

INVENTOR (S):

Kosoglou, Teddy; Ress, Rudyard Joseph; Strony, John;

Veltri, Enrico P.; Hauer, William

PATENT ASSIGNEE(S):

SOURCE: .

Schering Corporation, USA PCT Int. Appl., 105 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 12

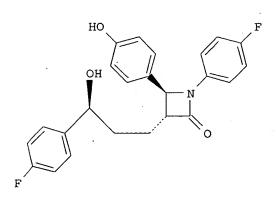
PATENT NO.	KIND DATE	APPLICATION NO.	DATE
WO 2002058731	A2 20020801	WO 2002-US1196	20020125
WO 2002058731	A3 20031120		
W: AE, AG, AL,	AM, AT, AU, AZ,	BA, BB, BG, BR, BY, BZ,	CA, CH, CN,
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ID, IL, IN,	IS, JP, KG, KR,	KZ, LC, LK, LR, LT, LU,	LV, MA, MD,
MG, MK, MN,	MX, MZ, NO, NZ,	PH, PL, PT, RO, RU, SE,	SG, SI, SK,
SL, TJ, TM,	TN, TR, TT, TZ,	UA, UZ, VN, YU, ZA, ZM	
RW: GH, GM, KE,	LS, MW, MZ, SD,	SL, SZ, TZ, UG, ZM, ZW,	AM, AZ, BY,
KG, KZ, MD,	RU, TJ, TM, AT,	BE, CH, CY, DE, DK, ES,	FI, FR, GB,
GR, IE, IT,	LU, MC, NL, PT,	SE, TR, BF, BJ, CF, CG,	CI, CM, GA,
GN, GQ, GW,	ML, MR, NE, SN,	TD, TG	
CD 2434436	ΔΔ 20020801	CA 2002-2434436	20020125

· US	2003	0692	21		A1		2003	0410	US	2002	-5733	9			2002	0125
EP	1385	548			A2		2004	0204	EP	2002	-7075	00			2002	0125
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB, G	R, IT	, LI,	LU,	NL,	SE	E, MC	, PT,
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY, A	L, TR						
BR	2002	0066	44		Α		2004	0225	BR	2002	-6644				2002	0125
EP	1413	331			A2		2004	0428	EP	2004	-161				2002	0125
EP	1413	331			A3		2004	0630								
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB, G	R, IT	, LI,	LU,	NL,	SE	, MC	, PT,
		IE,	SI,	LT,	LV,	FI,	RO,	MK,	CY, A	L, TR						
									JP							
									CN							
· EP	1541	175			A2		2005	0615	EP	2005	-3029				2002	0125
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB, G	R, IT	, LI,	LU,	ΝL,	SE	E, MC	, PT,
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ZA	2003	0056	94		Α		2004	1025	ZA	2003	-5694				2003	0723
ZA	2003	0056	93		A		2005	0209	ZA NO	2003	-5693				2003	0723
NO	2003	0033	58		A		2003	0912	ИО	2003	-3358				2003	0725
	2004								ປຣ	2003	-6399	00			2003	0813
US	2005	1539	52		A1		2005	0714	US	2004	-9984 -2642	00			2004	1129
PRIORITY	Y APP	LN.	INFO	.:					US	2001	-2642	75P		P	2001	0126
				•					US	2001	-2643	96P		P	2001	0126
									US	2001	-2646	00P		P	2001	0126
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						•					-5732					0125
											-5764					
											-US11					0125
										2002	-1369	68		A3	2002	0501

OTHER SOURCE(S):

MARPAT 137:129903

Ι



·AB The present invention provides compns., therapeutic combinations and methods including: (a) at least one sterol absorption inhibitor and (b) at least one cardiovascular agent different from the sterol absorption inhibitor, which can be useful for treating vascular conditions, obesity, diabetes and lowering plasma levels of sterols. Tablets were prepared containing cardiovascular agents which can be coadministered with formulations containing, e.g., I. The preparation of I was given.

IT 107133-36-8, Perindopril erbumine

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (combinations of azetidinone sterol absorption inhibitor(s) with cardiovascular agent(s) for the treatment of vascular conditions)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.

with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

L17 ANSWER 58 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2002:504616 HCAPLUS

DOCUMENT NUMBER:

137:68194

TITLE:

Thermoformable solid pharmaceutical composition for

controlled release of perindopril

INVENTOR (S):

Wuthrich, Patrick; Rolland, Herve; Briault, Gilles;

Pichon, Gerard; Tharrault, Francois

PATENT ASSIGNEE(S):

Les Laboratoires Servier, Fr.

SOURCE:

PCT Int. Appl., 22 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

JNT: 1

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO.

DATE

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20020704
                                                    WO 2001-FR4133
     WO 2002051407
                              A1
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RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
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                               A1
                                      20020628
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                                                                                20001226
     FR 2818550
                              В1
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                                      20020704
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                                                                                20011221
                                                    EP 2001-989653
     EP 1345605
                               A1
                                      20030924
                                                                                20011221
     EP 1345605
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          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
               IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                                      20031021
                                                    BR 2001-16536
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     JP 2004518666
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     PT 1345605
                               Т
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     ES 2244672
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     NO 2003002738
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     US 2004115227
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                                                    US 2003-451937
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                              A1
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                                                                            A 20001226
PRIORITY APPLN. INFO.:
                                                    FR 2000-17013
                                                    WO 2001-FR4133
                                                                            W
                                                                                20011221
     The invention concerns a novel solid pharmaceutical composition, with
AB
     controlled release, obtained by hot-process thermoforming of a mixture based
     on polymers belonging to the polymethacrylate family, and perindopril or
     one of its pharmaceutically acceptable salts. Controlled-release
     pharmaceutical were prepared by extrusion of 2% perindopril tert-butylamine
     salt and 98% Eudragit E-100 at 95°. Dissoln. rate of the composition
     was studied.
IT
     107133-36-8
     RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
         (thermoformable solid pharmaceutical composition for controlled release of
         perindopril)
RN
     107133-36-8 HCAPLUS
     1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-
CN
      (ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.
     with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)
     CM
     CRN 82834-16-0
     CMF
           C19 H32 N2 O5
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Searched by Paul Schulwitz 571-272-2527

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 59 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2001:851113 HCAPLUS

DOCUMENT NUMBER:

135:371632

TITLE:

Preparation of the ACE-inhibiting  $\beta$ -crystalline

form of perindopril tert-butylamine salt and

antihypertensive pharmaceutical formulation containing

it

INVENTOR(S):

Pfeiffer, Bruno; Ginot, Yves-Michel; Coquerel, Gerard;

Beilles, Stephane

PATENT ASSIGNEE(S):

Adir et Compagnie, Fr.

SOURCE:

PCT Int. Appl., 14 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

French

PATENT NO.	KIND DATE	APPLICATION NO.	DATE
PAIENI NO.	KIND DATE	APPLICATION NO.	DATE
WO 2001087836 °	A1 20011122	WO 2001-FR2168	20010706
W: AE, AG, AL,	AM, AT, AU, AZ,	BA, BB, BG, BR, BY, BZ,	CA, CH, CN,
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GM, HR, HU,	ID, IL, IN, IS,	JP, KE, KG, KP, KR, KZ,	LC, LK, LR,
LS, LT, LU,	LV, MA, MD, MG,	MK, MN, MW, MX, MZ, NO,	NZ, PL, PT,
RO, RU, SD,	SE, SG, SI, SK,	SL, TJ, TM, TR, TT, TZ,	UA, UG, US,
UZ, VN, YU,	ZA, ZW ·		
		SL, SZ, TZ, UG, ZW, AT,	
		IE, IT, LU, MC, NL, PT,	
BJ, CF, CG,	CI, CM, GA, GN,	GW, ML, MR, NE, SN, TD,	TG
FR 2811319	A1 20020111	FR 2000-8792	20000706

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	· CA	2415	442			AA		2001	1122	CA	2001-	24154		20010	706			
	EP	1294689				A1		2003	0326	EP	2001-	95405	9		20010	706		
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	BR	2001	01224	44		A 20030624					BR 2001-12244					20010706		
	JP	JP 2003533508					;	2003	1111	JP	2001-	58423		20010706				
	JP	3592	297			B2	:	2004	1124									
	EE	2003	0000		Α	:	2004	0816	EE	2003-	2			20010	706			
	NZ	5232	34			Α	:	2005	0128	NZ	2001-	52323	4		20010	706		
tin	W YUS	20.04	0298	1.3		A1		2004	0212	US	2002-	31290	2		20021	231 .		
ZΛVI	ZA.	2003	<b>-0000</b> :	24		Α	;	2004	0205	ZA	2003-	24			20030	102		
	ИО	2003	0000	50		Α		2003	0106	NO	2003-	50			20030	106		
	BG	1075	33		•	Α		2003	1128	BG	2003-	10753	3		20030	205		
	HR	2003	0000	79		A1		2003	0430	HR	2003-	79			20030	206		
	JΡ	2005	0021	21		A2	•	2005	0106	JP	2004-	20615	9,		20040	713		
	✓ US	2005	2031	65		A1		2005	0915	US	2005-	52489	)		20050	204		
	PRIORITY	Y APP	LN.	INFO	. :					FR	2000-	8792		<u>A</u>	20000	706		
										JP	2001-	58423	13	A3	20010	706		
			•							MO	2001-	FR216	8	W	20010			
										US	2002-	31290	2	B1	20021	231		
	λR The	a mor	e-ct:	ahla	B-C	rvet	211i:	ne f	orm c	of the	tort-	hutsel	amin,	a calt	- of			

AB The more-stable β-crystalline form of the tert-butylamine salt of perindopril (I), characterized by its X-ray powder diffraction pattern, is prepared by refluxing the tert-butylamine salt of perindopril in dichloromethane, followed by cooling the mixture, and filtration. A I-contg tablet formulation is presented.

IT 107133-36-8

RL: PEP (Physical, engineering or chemical process); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (preparation of the ACE-inhibiting  $\beta$ -crystalline form of perindopril tert-butylamine salt and antihypertensive pharmaceutical formulation containing it)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

NH<sub>2</sub> | H<sub>3</sub>C-C-CH<sub>3</sub> | CH<sub>3</sub>

REFERENCE COUNT:

2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1/ ANSWER 60 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2001:851112 HCAPLUS

DOCUMENT NUMBER:

135:371631

TITLE:

Preparation and X-ray characterization of the

ACE-inhibiting  $\alpha$ -crystalline form of the

tert-butylamine salt of perindopril

INVENTOR(S):

Pfeiffer, Bruno; Ginot, Yves-Michel; Coquerel, Gerard;

Beilles, Stephane

PATENT ASSIGNEE(S):

Les Laboratoires Servier, Fr.

SOURCE:

PCT Int. Appl., 16 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT		KIND DATE			APPLICATION NO.						DATE					
WO 200	WO 2001087835				Δ1 20011122				√ 2 i	001-1		2(		706		
												CA, CH, CN,				
	co,															
•	GM,		•		•				•		-		•			
	LS,															
•	. RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,	ບຣ໌,
	UΖ,	VN,	YU,	ZA,	ZW,	AM,	AZ,	BY,	KG,	KZ,	MD,	RU,	TJ,	TM		
RW	: GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,
	DE,	•	,	•	,	,	•	,	•		•	•		•	TR,	BF,
	ВJ,			,			-									
FR 2811320							]	FR 2	000-	8793			2	0000.	706	
	R 2811320															
	A 2415438															
EP 129	P 1296947 P 1296947			A1	:	2003	0402	EP 2001-954058							0010	706
R:	AT,							•	,		LI,	LU,	NL,	SE,	MC,	PT,
	·IE,	•							•			_				
								BR 2001-12367								
								JP 2001-584232						21	0010	/06
JP 360				B2		2004				001	0540				0010	706
AT 258 NZ 523	918			E						001-						
							0430	-		001-				_	0010	
	1296947 200300001			_			0531			001-		58			0010	
				A			0816			003~	_	0.50		_	0010	
ES 221														20010706		
	ZA 2002010092						1212			002-						
US 2003186896				A1	•	2003	1002	1	US 2	002-	3129	9.1		2	0021.	Z <b>3</b> 1

NO 2003000024	Α	20030103	NO	2003-24		20030103
BG 107532	Α	20031231	BG	2003-107532		20030205
HR 2003000077	<b>A1</b>	20030430	HR	2003-77		20030206
US 2005059609	<b>A1</b>	20050317	US	2004-792355		20040303
JP 2005047902	A2	20050224	JP	2004-206158		20040713
PRIORITY APPLN. INFO.:			FR	2000-8793	Α	20000706
			FR	2000-8973	. A	20000706
			JP	2001-584232	A3	20010706
•			WO	2001-FR2167	W	20010706
			US.	2002-312961	B1	20021231

The  $\alpha$ -crystalline form of the ACE-inhibiting tert-butylamine salt of perindopril (I) is prepared by refluxing the tert-butylamine salt of perindopril in Et acetate, cooling the mixture, and filtering the I  $\alpha$ -crystal modification, which is characterized by its powder X-ray diffraction pattern, and a I-containing pharmaceutical formulation is prepared IT 107133-36-8, Perindopril erbumine

RL: PEP (Physical, engineering or chemical process); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (preparation and X-ray characterization of the ACE-inhibiting α-crystalline form of the tert-butylamine salt of perindopril)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS

## RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 61 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2001:816626 HCAPLUS

DOCUMENT NUMBER:

135:344373

TITLE:

Process for preparing the novel  $\gamma$  crystalline

form of the diuretic perindopril tert-butylamine salt Pfeiffer, Bruno; Ginot, Yves-Michel; Coquerel, Gerard;

Beilles, Stephane.

PATENT ASSIGNEE(S):

Adir et Compagnie, Fr. PCT Int. Appl., 11 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

SOURCE:

French

INVENTOR(S):

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION: .

	PATENT NO.				KIND DATE				APPLICATION NO.						DATE			
	WO 2001083439			A2 20011108				₩O	2001-	FP21	69		20010706					
	WO 2001083439			A3 2002020									. •	20020700				
		W:								BA.	BE	B, BG,	BR.	BY.	BZ.	CA.	CH.	CN.
												, EE,						
												, KG,						
												I, MW,						
												Г, ТМ,						
						ZA,												
		RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ	Z, TZ,	UG,	ZW,	AT,	BE,	CH,	CY,
			DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	ΓI	LU,	MC,	NL,	PT,	SE,	TR,	BF,
			ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GW,	MI	MR,	ΝE,	SN,	TD,	TG		
	FR	2811	318			A1		2002	0111		FR	2000-	8791	•		2	20000	706
		2811				В1		2002										
	CA	2415 2001	447			AA		2001	1108		CA	2001- 2001-	2415	447		2	20010	706
				20		· A5		2001	1112		AU	2001-	7642	0		2	20010	
		1296				A2					EP	2001-	9540	60		2	20010	706
	ΕP	1296				B1		2003										
		R:										R, IT,	LI,	LU,	NL,	SE,	MC,	PT,
					LT,							, TR						
		2001		11		A		2003				2001-				-	20010	
		2494							0915			2001-					20010	
		2003		90		T2			1028		JP	2001-	5808	68		2	20010	706
		3592				B2			1124							_		
		1296				T T3			1231			2001-					20010	
	X.	2206	-					2004				2001-					20010	
	•	5233		,		A A			0625			2001-		11			20010	
1		2003							0816 0821			2003-		0.2			20010	
1		2003				A1 A		2003	_			2002- 2003-		03			20021	
M		2003						2004				2003-					20030	
-		1075		3 T				2003				2003-		<b>ว</b> 1			20030 20030	
		2003		70		A A1		2003				2003-		34			20030	-
		2003		70		B1		2003			пк	2003	70		•	-	.0030	200
7		2004		17		A1		2004			IIC	2004-	9117	27			20040	329
		2005				A2		2005				2004					20040	
PRIO					. •	7.6		2003	J <b>T</b> U U		FR	2000-	8791				20000	
2 11201			~		• •						JP	2001-	5808	68	•	Δ3 2	20010	706
									. ,		WO	2001-	FR21	69	;	W 2	20010	706
											US	2002-	3129	03.		н В1 2	20021	231
AB	The	2 7 C	rvsta	alli	ne f	orm (	of t	he d	iure			indor						

AB The γ crystalline form of the diuretic perindopril tert-butylamine salt

(I) is prepared by refluxing a chloroform-I solution, cooling the solution to 0°, and filtering the I  $\dot{\gamma}$  crystal modification which is characterized by its X-ray diffraction pattern; a I-containing formulation is presented.

IT 107133-36-8

> RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)

(process for preparing the novel  $\gamma$  crystalline form of the diuretic perindopril tert-butylamine salt)

RN 107133-36-8 HCAPLUS

> 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CN

CRN 82834-16-0 C19 H32 N2 O5 CMF

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 C4 H11 N CMF

L17 ANSWER 62 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2001:782126 HCAPLUS

DOCUMENT NUMBER:

137:15299

TITLE:

Activity of the renin-angiotensin-aldosterone system and its impact of the efficiency of treatment in pulmonary tuberculosis patients with chronic heart

failure

AUTHOR(S): CORPORATE SOURCE: Radzevich, A. E.; Dityatkov, A. E.; Tikhonov, V. A. Protivotubrkuloznyi Klin. Dispanzer No. 12., Mosk.

Gos. Mediko-Stomatol. Univ., Moscow, Russia

SOURCE:

Problemy Tuberkuleza (2001), (5), 16-19

CODEN: PRTUAX; ISSN: 0032-9533

PUBLISHER:

Izdatel'stvo Meditsina

DOCUMENT TYPE:

Journal

LANGUAGE:

Russian

AΒ The renin-angiotensin-aldosterone system (RAAS) was studied in 93 patients with pulmonary tuberculosis complicated by chronic heart failure (CHF). RIA was used to determine plasma renin activity (PRA) and serum angiotensin 1 and aldosterone levels. There was higher RAAS activity, as shown by elevated PRA. RAAS activity decreased during CHF treatment with angiotensin-converting enzyme inhibitors (captopril, ramipril, prestarium) and an angiotensin II-receptor blocker (cozaar), which is indicative of the efficiency of CHF treatment.

107133-36-8, Prestarium ĬΤ

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(activity of the RAAS and its impact of RAAS efficiency of treatment in pulmonary tuberculosis patients complicated by chronic heart failure)

107133-36-8 HCAPLUS RN

1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-CN

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.

with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 C4 H11 N CMF

HCAPLUS COPYRIGHT 2006 ACS on STN L17 ANSWER 63 OF 80

2001:597957 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER:

135:167034

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TITLE:
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Method for synthesis of perindopril and its

pharmaceutically acceptable salts

INVENTOR(S):

Langlois, Pascal; Turbe, Hugues Adir et Compagnie, Fr.

PATENT ASSIGNEE(S):

PCT Int. Appl., 18 pp.

SOURCE: PCT Int. Appl. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA						KIND DATE				APPLICATION NO.					DATE			
														-				
WO								WO 2001-FR1026 BA, BB, BG, BR, BY,										
	W:																	
							DK,											
					•	•	IS,		•		•			-		-		
		,		•	•	,	MG,					-	-		•			
			•			SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	
			YU,															
	RW:			,			MZ,		-									
							GB,										BF,	
							GA,											
	2807						2001			FR 2	000-	4379			2	0000	406	
	2807																	
	2405						2001											
AU	2001	0484			A5 20010820													
EP	EP 1268424			A1				EP 2001-921486										
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	
		ΙE,	SI,	LT,	LV,		RO,											
	2001						2003	0624	BR 2001-9836					20010405				
JP	2003	5318	25		T2		2003	1028	JP 2001-558419						2	0010	405	
	5214	54			A		2004	0326	NZ 2001-521454						2	0010	405	
	2002						2004	0415		EE 2	002-	575			2	0010	405	
ZA	2002	0074	19		Α		2003	0916	•	ZA 2	002-	7419			2	0020	916	
"US	2003	0694	31		A1		2003	0410		US 2	002-	2391	29		2	0020	919	
J US	US 2003069431 / US 6835843				B2		2004	1228										
NO	2002	0048	8 0		Α		2002	1004		NO 2	002-	4808			. 2	0021	004	
BG	1072	49			Α		2003	0731		BG 2	002-	1072	49		2	0021	104	
PRIORIT	RIORITY APPLN. INFO.:										000-					0000	406	
										WO 2	001-	FR10	26	1	₩ 2	0010	405	

OTHER SOURCE(S): CASREACT 135:167034

Perindopril [(2S,3aS,7aS)-1-[(2S)-2-[(1S)-1-(ethoxycarbonyl)butylamino]pro pionyl]octahydro-1H-indole-2-carboxylic acid] was prepared by coupling (2S,3aS,7aS)octahydroindole-2-carboxylic acid tosylate with N-[(S)-1-carbethoxybutyl]-(S)-alanine, followed by catalytic hydrogenation to remove the benzyl group. In an example, the coupling reaction was carried out in Et acetate in the presence of Et3N, 1-hydroxybenzotriazole and dicyclohexylcarbodiimide at 30° for 3h to give 92% perindopril benzyl ester.

IT 107133-36-8P

RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(method for synthesis of perindopril)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS;7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM· 2

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 64 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2001:466243 HCAPLUS

DOCUMENT NUMBER:

135:266539

TITLE:

Perindopril. An updated review of its use in

hypertension

AUTHOR (S):

Hurst, Miriam; Jarvis, Blair

CORPORATE SOURCE:

Adis International Limited, Auckland, N. Z.

SOURCE: Drugs

Drugs (2001), 61(6), 867-896 CODEN: DRUGAY; ISSN: 0012-6667

PUBLISHER:

Adis International Ltd.

DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

English

AB A review with 127 refs. Perindopril erbumine (perindopril) is a prodrug ester of perindoprilat, an angiotensin converting enzyme (ACE) inhibitor. Perindopril 4 to 8mg once daily significantly reduces supine systolic blood pressure (SBP) and diastolic blood pressure (DBP) from baseline values in hypertensive patients. These redns. are maintained for at least 24 h, as evidenced by trough/peak ratios of >50%. Vascular abnormalities associated with hypertension were improved or normalized during perindopril treatment. Perindopril 4 to 8mg once daily significantly decreased carotid-femoral aortic pulse wave velocity (PWV), improved arterial compliance, reduced left ventricular mass index and, in patients with recent cerebral ischemia and/or stroke, preserved cerebral blood flow

despite significantly reducing SBP and DBP. Further research is needed to establish the significance of promising results showing that redns. in aortic PWV were associated with reduced mortality in patients with end-stage renal failure, a third of whom received perindopril. Response rates (nos. of patients with supine DBP ≤90mm Hg) were significantly higher with perindopril 4 to 8mg once daily (67 to 80%) than with captopril 25 to 50mg twice daily (44 to 57%) in 3 randomized double-blind trials. In other clin. trials, the antihypertensive effects of perindopril were similar to those of other ACE inhibitors (including enalapril) and calcium-channel antagonists. Combination treatment with perindopril and an antihypertensive agent from another treatment class provided addnl. benefits, either as first-line treatment or in patients failing to respond to monotherapy. Perindopril monotherapy was also effective in the elderly and in patients with hypertension and concomitant disease. Perindopril has a similar adverse event profile to that of other ACE inhibitors; cough is the most common event reported during treatment, and is also the most common adverse event responsible for treatment withdrawal. conclusions, perindopril is a well tolerated ACE inhibitor that is significantly better than captopril (in terms of response rates) in the treatment of hypertension, and as effective as other ACE inhibitors. Perindopril appears to reverse some of the vascular abnormalities associated with hypertension, including arterial stiffness and left ventricular hypertrophy, although further research is needed to confirm promising results regarding its ability to decrease associated cardiovascular morbidity and mortality. Results from ongoing studies will help confirm the place of perindopril in the treatment of hypertension; currently, it is an effective and well tolerated treatment for patients with mild to moderate essential hypertension.

IT 107133-36-8, Perindopril erbumine

RL: BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(perindopril in treatment of hypertension in humans)

RN 107133-36-8 HCAPLUS

1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CN

CRN 82834-16-0

CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

127 THERE ARE 127 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

 $_{
m L17}$  ANSWER 65 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2001:324422 HCAPLUS

DOCUMENT NUMBER:

134:336208

TITLE:

Antitumor agents and neovascularization inhibitors

containing perindopril erbumines Fukui, Hiroshi; Kichiji, Hitoshi Daiichi Seiyaku Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 6 pp.

SOURCE:

CODEN: JKXXAF

DOCUMENT TYPE:

INVENTOR(S): ·

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT ASSIGNEE(S):

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001122780	A2	20019508	JP 1999-307814	19991028
PRIORITY APPLN. INFO.:			JP 1999-307814	19991028
OTHER SOURCE(S):	MARPAT	134:336208		
GI		•		•

Т

$$CO_2H$$
 $CO_2H$ 
 $COCH (CH_2)_qNHCHR^3$ 
 $R^1$ 
 $CO_2R^2$ 

- Pharmaceuticals, useful for inhibition of proliferation and/or metastasis of malignant tumor or neovascularization, contain perindopril erbumine derivs. I [ring A = saturated ring; n = 0; Rl = 'Cl-4 (amino)alkyl; R2 = H, Cl-4 alkyl; R3 = C≤9 (chloro)alkyl, CH2SCHR4R5; R4 = H, Cl-4 alkyl; R5 = alkoxycarbonyl; R4 = R5 = C3-6 cycloalkyl; q = 0]. Perindopril erbumine (at 2 mg/kg) inhibited proliferation of liver cancer cells in
- IT 107133-36-8, Perindopril erbumine
  RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(antitumor agents and neovascularization inhibitors containing perindopril

erbumines)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

L17 ANSWER 66 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2000:875595 HCAPLUS

DOCUMENT NUMBER:

135:86714

TITLE:

Butylaminiperindopril decreases transforming growth factor- $\beta$ 1 messenger RNA production in lungs of C57BL6 mice after low-dose whole-body irradiation

AUTHOR (S):

Olejar, T.; Pouckova, P.; Zadinova, M.

CORPORATE SOURCE:

Institute of Biophysics, Charles University, Prague,

Czech Rep.

SOURCE:

Drugs under Experimental and Clinical Research (2000),

26(4), 113-117

CODEN: DECRDP; ISSN: 0378-6501

PUBLISHER:

Bioscience Ediprint Inc.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB Transforming growth factor (TGF)- $\beta$  is believed to play a key role in the development of many autoimmune and malignant diseases, such as radiation and drug-induced organ disease. The aim of the present study was to determine mRNA production of TGF- $\beta$ 1 in the lungs of C57B16 mice after

low-dose whole-body irradiation Control (irradiated) and irradiated angiotensin-converting enzyme (ACE) inhibitor-treated animals were simultaneously examined The ACE inhibitor group received butylaminiperindopril for 9 days after irradiation (7 Gy) at a daily dose of 0.1 mg/kg per rectum. On day 9, all mice were sacrificed and the production of mRNA TGF- $\beta$ l in lung tissue was determined semiquant. using reverse transcriptase polymerase chain reaction. In butylaminiperindopril-treated mice, a decrease in transcript of TGF- $\beta$ l (to 59% in comparison with controls) was observed

IT 107133-36-8, Butylaminiperindopril

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(butylaminiperindopril decreases transforming growth factor-  $\beta 1$  mRNA production in lungs of C57BL6 mice after low-dose whole-body irradiation)

RN 107133-36-8 HCAPLUS

1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CN

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 67 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN ACCESSION NUMBER: 1999:480742 HCAPLUS

DOCUMENT NUMBER:

131:149349

TITLE:

Drugs packaged by strip or press-through packaging and

enclosed together with desiccants

INVENTOR(S):

Terao, Kazuyuki; Yoshikawa, Suehiro Daiichi Seiyaku Co., Ltd., Japan

PATENT ASSIGNEE(S): SOURCE:

Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
JP 11206850	A2	19990803	JP 1998-16930	19980129		
PRIORITY APPLN. INFO.:			JP 1998-16930	19980129		
20 0-244 4		. 1				

AB Solid drugs, which are packaged with a strip packaging or press-through packaging (PTP) material comprising a moisture-permeable and gas-barrier plastic sheet and an Al foil, are enclosed together with desiccant. The method prevents drugs which are instable to water, e.g. perindopril erbumine (I), etc., from deterioration due to moisture. Tablets of I were packaged with a poly(vinyl chloride) sheet ad an Al foil by PTP and enclosed in an Al-laminated plastic film bag. The bag was stored at 40° and relative humidity 75% for 6 mo. Content of I in the tablets was 96.5%.

IT 107133-36-8, Perindopril erbumine

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (strip or press-through packaging of drugs with moisture-permeable and gas-barrier plastic films and Al foil and enclosing them together with desiccants)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

HCAPLUS COPYRIGHT 2006 ACS on STN L17 ANSWER 68 OF 80

ACCESSION NUMBER:

1999:480741 HCAPLUS

DOCUMENT NUMBER:

131:149348

TITLE:

Drug desiccants and drugs stored together with the

desiccants

INVENTOR (S): PATENT ASSIGNEE(S):

Terao, Kazuyuki; Yoshikawa, Suehiro Daiichi Seiyaku Co., Ltd., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 4 pp.

DOCUMENT TYPE:

CODEN: JKXXAF Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
					-,
	JР 11206849	A2	19990803	JP 1998-16929	19980129
PRIO	RITY APPLN. INFO.:			JP 1998-16929	19980129
AB	The desiccants are	packed	in a moistur	e-permeable and gas-	barrier plasti
					L-1- L-1

tic baq. Solid drugs stored in a sealed container together with the desiccants are also claimed. The desiccants are useful for storing drugs instable to water and evaporable drugs. Tablets of perindopril erbumine (I) were stored in a glass bottle together with silica-alumina gel disk packed in a nylon-polyacrylonitrile laminated film at 40° and relative humidity 75% for 6 mo to show the content of I 97.3%. vs. 71.4% even after 2 mo for a control using a paper-packaged desiccant.

107133-36-8, Perindopril erbumine IT

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (drug desiccants packed in moisture-permeable and gas-barrier plastic film bag)

107133-36-8 HCAPLUS RN

1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-CN (ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CRN 75-64-9 CMF C4 H11 N

L17 ANSWER 69 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1999:344860 HCAPLUS

DOCUMENT NUMBER:

130:357193

TITLE:

Combination of angiotensin converting enzyme inhibitor

with a diuretic for treating microcirculation

disorders

INVENTOR (S):

Guez, David; Schiavi, Pierre; Levy, Bernard

PATENT ASSIGNEE(S):

Adir et Compagnie, Fr.

SOURCE:

PCT Int. Appl., 23 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.					APPLICATION NO.	DATE	
WO	9925374			A1	19990527	WO 1998-FR411	19980303
	W: AU,	BR,	CA,	CN,	HU, JP, MX,	NO, NZ, PL, US, AM, AZ	, BY, KG, KZ,
	MD,	RU,	TJ,	TM			
	RW: AT,	BE,	CH,	DE,	DK, ES, FI,	FR, GB, GR, IE, IT, LU	, MC, NL, PT, SE
FR	2771010			A1	19990521	FR 1997-14485	19971119
FR	2771010			В1	20030815		
CA	2310136			AA	19990527	CA 1998-2310136	19980303
$\cdot CA$	2310136			C	20040420		
ΑU	9868377			A1	19990607	AU 1998-68377	19980303
ΑU	740748			B2	20011115		
EΡ	1032414			A1	20000906	EP 1998-913813	19980303
EΡ	1032414			B1	20030507		
	R: AT,	BE,	CH,	DE,	DK, ES, FR,	GB, GR, IT, LI, LU, NL	, SE, PT, IE, FI
'BR	9814885			Α	20001003	BR 1998-14885	19980303
JP	200152364	6		T2	20011127	JP 2000-520807	19980303

				•
E	20030515	AT 1998-913813		19980303
Α	20030530	NZ 1998-504220		19980303
T	20030829	PT 1998-913813		19980303
<b>T</b> 3	20040201	ES 1998-913813		19980303
Α	19990204	ZA 1998-6673		19980727
Α	20000512	NO 2000-2479		20000512
B1	20031125	US 2000-554715		20000518
		FR 1997-14485	A.	19971119
	•	WO 1998-FR411	W	19980303
	A T T3 A	A 20030530 T 20030829 T3 20040201 A 19990204 A 20000512	A 20030530 NZ 1998-504220 T 20030829 PT 1998-913813 T3 20040201 ES 1998-913813 A 19990204 ZA 1998-6673 A 20000512 NO 2000-2479 B1 20031125 US 2000-554715 FR 1997-14485	A 20030530 NZ 1998-504220 T 20030829 PT 1998-913813 T3 20040201 ES 1998-913813 A 19990204 ZA 1998-6673 A 20000512 NO 2000-2479 B1 20031125 US 2000-554715 FR 1997-14485 A

AB The use of a combination of the angiotensin converting enzyme inhibitor (IEC) with a diuretic to obtain pharmaceutical compns. for treating arteriole-capillary microcirculation disorders is disclosed. A tablet contained perindopril tert-butylamine (I) 2, indapamide (II) 0.625, colloidal silica 0.25, lactose 64.175, magnesium stearate 0.45, and microcryst. cellulose 22.5 mg. The efficacy of oral administration of 0.76 mg/kg/day I and 0.24 mg/kg/day II in rats is shown.

IT 107133-36-8

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(combination of angiotensin converting enzyme inhibitor with diuretic for treating microcirculation disorders)

RN 107133-36-8 HCAPLUS

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 70 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

130:57229

ACCESSION NUMBER:
DOCUMENT NUMBER:

1999:7800 HCAPLUS

TITLE:

Controlled release pharmaceutical preparation with ACE

inhibitor as active agent

INVENTOR(S):

Fischer, Wilfried; Klokkers, Karin; Oppelt, Renate

PATENT ASSIGNEE(S): Hexal Ag, Germany

SOURCE:

PCT Int. Appl., 23 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

F		ENT 1										LICA'	rion	NO.		D	ATE	1	
V		9856												36		1	9980	612	
		W:	AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR	, BY	, CA,	CH,	CN,	CU,	CZ,	DE,	
													, ID,						
			ΚP,	KR,	KZ,	LC,	LK,	ĽR,	LS,	LT,	LU	, LV	, MD,	MG,	MK,	MN,	MW,	MX,	
			NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG	, si	, sk,	SL,	TJ,	TM,	TR,	TT,	
													, KG,						
		RW:	GH,	GM,	KE,	LS,	MW,	SD,	SZ,	UG#	ZW	, AT	, BE,	CH,	CY,	DE,	DK,	ES,	
			FI,	FR,	GB,	GR,	IE,	IT,	LU,	MC,	NL	, PT	, SE,	BF,	ВJ,	CF,	CG,	CI,	
			CM,	GA,	GN,	ML,	MR,	NE,	SN,	TD,	TG	}							
I	Œ	1972	4696			A1		1998	1224		DE	1997	-1972	4696		1	9970	612	
	CA	2295	013		٠.	AA		1998	1217		CA	1998	-2295	013		1	9980	612	
I	/U	9883	368			A1		1998	1230		UΑ	1998	-8336	8		1	9980	612	
I	\U	7363	57			B2		2001	0726						•				
Ź	ZA	9805	142			Α		2000	0112		ZA	1998	-5142			1	9980	612	
E	ΞP	9946	96			A1		2000	0426		ΕP	1998	-9336	05		1	9980	612	
E	ΞP	9946	96			В1		2004	0218										
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT	, LI,	LU,	NL,	SE,	MC,	PT,	
			ΙE,	SI,	FI											•			
T	ľR	9903	069			T2		2000	0522		TR	1999	-9903	069		1	9980	612	
N	ΙZ	5017	26			Α		2001	0928		NZ	1998	-5017	26		1	9980	612	
Ţ	ΙP	2002	50410	80				2002	0205		JP	1999	-5016	25		1	9980	612	
		25963	-			Ε.		2004	0315		AT	1998	-9336	05		1	9980	612	
E	S	22162	296			Т3		2004	1016		ES	1998	-9336	05		1	9980	612	
N	10	9906	049			Α		2000	0207		NO	1999	-6049			1	9991	208	
Ţ	JS .	6267	990			В1		2001	0731		US	1999	-4600	55		1	9991:	213	
PRIOR1	TY	APP	LN.	INFO	. :						DE	1997	-1972	4696	1	A 1	9970	612	
											WO	1998	-EP35	36	1	W 1	9980	612	

The title preparation contains: (i) an initial dose of active agent and optional auxiliary agents, (ii) a 1st type of controlled-release pellet in which the active agent and optional auxiliary agents are coated, and (iii) a 2nd type of controlled-release pellet in which the active agent and optional auxiliary agents are also coated. The weight ratio of the masses of the coatings in (ii) and (iii) is (1:2)-(1:7). This preparation allows an almost immediate action of the ACE inhibitor (e.g. captopril) without a marked initial peak in blood level, and maintenance of a long-lasting therapeutic blood level of the drug thereafter with very little variation. Thus, pellets A were prepared containing captopril 5, Avicel (microcryst. cellulose) 3, and tablettose 2 mg. Pellets A (700 g) were coated with Opadry II 40.48 and H2O 250 g, followed by a 2nd coat containing Eudragit S 100 62.5, di-Bu phthalate 6.25, 96% EtOH 350.00, and H2O 87.5 g to produce

pellets B. Addnl. pellets A (700 g) were coated with Opadry II and H2O as above, followed by a coating of Eudragit S 100 192.5, di-Bu phthalate 19.25, 96% EtOH 1078, and H2O 269.5 g to produce pellets C. Pellets A 100, pellets B 700, and pellets C 700 g were dispensed into a gelatin capsule with a final captopril content of 150 mg.

IT 107133-36-8, Perindopril erbumine

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(controlled release pharmaceutical preparation with ACE inhibitor as active agent)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 71 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1996:64980 HCAPLUS

DOCUMENT NUMBER:

124:97758

TITLE:

Drug combination containing  $\alpha$ -lipoic acid and

cardiovascular agents

INVENTOR(S):

Weischer, Carl; Ulrich, Heinz; Conrad, Frank; Schmidt,

Karlheinz

PATENT ASSIGNEE(S):

ASTA Medica AG, Germany

SOURCE:

Ger. Offen., 18 pp. CODEN: GWXXBX

(

DOCUMENT TYPE:

Patent German

LANGUAGE:

Germa

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	DE 4420102	A1	19951214	DE 1994-4420102	19940609
PRIOR	RITY APPLN. INFO.:			DE 1994-4420102	19940609
AB	A synergistic combine	nation	for treatment	t of cardiovascular and	
	dishetes-associated	digord	ers contains	α-lipoic acid (or its	

AB A synergistic combination for treatment of cardiovascular and diabetes-associated disorders contains α-lipoic acid (or its enantiomers, derivs., or metabolites), ≥1 organic nitrate, Ca2+ antagonist, angiotensin-converting enzyme inhibitor, or oxyfedrine. Thus, 400-mg tablets were prepared from a mixture containing (S)-α-lipoic acid 250, oxyfedrine 40, microcryst. cellulose 760, starch 250, lactose 682.5, Mg stearate 15, and highly disperse SiO2 2.5 g.

IT 107133-36-8, Perindopril-tert-butylamine

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(drug combination containing  $\alpha\text{-lipoic}$  acid and cardiovascular agents)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

L17 ANSWER 72 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1994:620945 HCAPLUS

DOCUMENT NUMBER:

121:220945

TITLE:

Pharmacokinetics of perindopril erbumine in rats. 2. Blood level profile, distribution, metabolism and

excretion after repeated oral administration

AUTHOR (S):

Nakaoka, Minoru; Hakusui, Hideo; Jin, Yoshitaka; Tutumi, Syuichirou; Hironaka, Akiko; Hirano, Hiromi;

Noguchi, Tomoyuki; Uohama, Katsumi; Takasaki, Michika;

et al.

CORPORATE SOURCE:

Developmental Research Laboratories, Daiichi

Pharmaceutical Co., Ltd., Tokyo, Japan Yakubutsu Dotai (1994), 9(2), 247-57

SOURCE: CODEN: YADOEL; ISSN: 0916-1139

DOCUMENT TYPE:

Journal

LANGUAGE:

Japanese

Pharmacokinetic studies on blood level, tissue distribution, metabolism and excretion of [14C]perindopril erbumine, an angiotensin-converting enzyme (ACE) inhibitor, were performed in rats during and after repeated oral administration of at 0.5 mg/kg/day for 14 days. The blood levels of radioactivity reached a steady state after 5 days, and the equivalent concentration

on day 5 was 7.09 ng/mL. After repeated oral administration, the radioactivity was mainly distributed in the lungs, kidneys, liver and intestinal tract. The radioactivity was highest in the lungs, which contain high ACE activity, and reached a steady state after 14 days. Elimination of radioactivity from most of tissues was rapid. It is assumed that the accumulation of radioactivity in the plexus choroideus arose from high localization of ACE. The excretion rate in the urine and feces during repeated oral administration was almost constant At 168 h after the last dose, the extent of excretion of radioactivity was 33.1% and 69.6% of the total dose in the urine and feces, resp. An active metabolite, perindoprilat, was found, which accounted for most of the radioactivity in the plasma, lungs, liver and kidneys, and also in the urine and feces.

107133-36-8, Perindopril erbumine IT

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(perindopril erbumine pharmacokinetics and metabolism)

107133-36-8 HCAPLUS RN

1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-CN

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.

with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

75-64-9 CRN C4 H11 N CMF

L17 ANSWER 73 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1994:620944 HCAPLUS

DOCUMENT NUMBER:

121:220944

TITLE:

AUTHOR (S):

SOURCE:

Pharmacokinetics of perindopril erbumine in rats. 1.

Plasma level profile, distribution, metabolism and

excretion after single oral administration Suzuki, Wataru; Kato, Kinuyo; Nakaoka, Minoru;

Hakusui, Hideo; Jin, Yoshitaka; Katami, Yoshiharu; Nogami, Takahiro; Shiina, Michiko; Otsu, Yuko; et al.

CORPORATE SOURCE:

Developmental Research Laboratories, Daiichi

Pharmaceutical Co., Ltd., Tokyo, Japan

Yakubutsu Dotai (1994), 9(2), 235-46 CODEN: YADOEL; ISSN: 0916-1139

DOCUMENT TYPE:

Journal

LANGUAGE: Japanese .

Pharmacokinetic studies on plasma level, tissue distribution, metabolism and excretion of [14C]perindopril erbumine, an angiotensin-converting enzyme (ACE) inhibitor, were performed in fasting male rats after single oral administration at 0.5 mg/kg. The radioactivity in plasma reached a maximum equivalent to 88 ng/mL after 1 h, and the elimination half-lives were 2.1 h (2-8 h) and 34 h (24-72 h). After single oral administration, the radioactivity was rapidly distributed to tissues, reaching maximum levels after 1 h in most tissues. After 8 h, a high level of radioactivity was detected in the lungs, pituitary gland, intestines, kidneys and aorta, due to high localization of ACE in these tissues. After 168 h, the level of radioactivity was reduced in all tissues. After 168 h, the radioactivity excreted in the urine and feces accounted for 39.7% and 58.7% of the dose, resp. Biliary excretion of radioactivity was 31.2% within 48 h. The total recoveries from urine, bile and carcass accounted for 75.4% of the dose, suggesting good gastrointestinal absorption. An active metabolite, perindoprilat, was found, which accounted for most of the radioactivity in the plasma, lungs, liver and kidneys, and also in the urine and feces. A

linear dose dependency of the pharmacokinetics was observed

IT 107133-36-8, Perindopril erbumine

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(perindopril erbumine pharmacokinetics and metabolism)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.

with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF, C4 H11 N

L17 ANSWER 74 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1990:118595 HCAPLUS

DOCUMENT NUMBER:

112:118595

TITLÉ:

Some syntheses of tritium biochemicals at high specific radioactivity: radiosyntheses of ACE

inhibitors, 5-HT1A and dopamine receptors radioligands

AUTHOR(S): Pichat, L.

CORPORATE SOURCE:

CEA - CEN Saclay, Gif-sur-Yvette, 91191, Fr.

SOURCE:

Synth. Appl. Isot. Labelled Cpd. 1988, Proc. Int. Symp. (1989), Meeting Date 1988, 21-6. Editor(s): Baillie, Thomas A.; Jones, John Richards. Elsevier:

Amsterdam, Neth. CODEN: 560XA8

DOCUMENT TYPE:

Conference

LANGUAGE:

English

AB A lecture with 9 refs. Synthesis of tritium labeled biochems. I and II as potent inhibitors of angiotensin converting enzyme (ACE) and III (OR = 5-OMe, 8-OMe) as D2 receptors is described.

IT 125650-71-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as angiotensin converting enzyme inhibitors)

RN 125650-71-7 HCAPLUS

CN lH-Indole-2-carboxylic acid, 1-[2-[[1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, labeled with tritium, [2S-[1[R\*(R\*)],2 $\alpha$ ,3a $\beta$ ,7a $\beta$ ]]-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 125650-70-6 CMF C19 H32 N2 O5 CIL XH-13

Absolute stereochemistry.

CRN 75-64-9 CMF C4 H11 N

IT 117770-59-9

RL: RCT (Reactant); RACT (Reactant or reagent)
 (tritiation of)

RN 117770-59-9 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)-3-butenyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 117770-58-8 CMF C19 H30 N2 O5

Absolute stereochemistry.

CM 2

CRN 75-64-9 CMF C4 H11 N

L17 ANSWER 75 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1989:515749 HCAPLUS

DOCUMENT NUMBER:

111:115749

TITLE:

Preparation of perindopril via acylation of

## Shiao 10/792,355

perhydroindolecarboxylate with N[(ethoxycarbonyl)butyl]alanine

INVENTOR(S):

Vincent, Michel; Baliarda, Jean; Marchand, Bernard;

Remond, Georges

PATENT ASSIGNEE(S):

ADIR, Fr.

SOURCE:

Eur. Pat. Appl., 25 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

French

7

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

KIND			DATE
A1	19890322		19880916
DE, ES	, FR, GB,	GR, IT, LI, LU, NL, SE	
A1	19890324	FR 1987-12896	19870917
B1	19900907		
A1	19950718	CA 1988-577078	19880907
`, A	19890318	DK 1988-5151	19880915
Bl	19961111		
A1	19890323	AU 1988-22362 `	19880916
B2	19910328		
A2	19890427	JP 1988-232125	19880916
B4	19930702		
Α	19890530	ZA 1988-6932	19880916
Α	19900403	US 1988-245446	19880916
E	19901215	AT 1988-402339	19880916
A1	19960130	CA 1991-616239	19911128
		FR 1987-12896	A 19870917
		CA 1988-577078	A3 19880907
		EP 1988-402339	A 19880916
	A1 B1 DE, ES A1 B1 A1 A B1 A1 B2 A2 B4 A	A1 19890322 B1 19901212 DE, ES, FR, GB, A1 19890324 B1 19900907 A1 19950718 A 19890318 B1 19961111 A1 19890323 B2 19910328 A2 19890427 B4 19930702 A 19890530 A 19900403 E 19901215	A1 19890322 EP 1988-402339 B1 19901212 DE, ES, FR, GB, GR, IT, LI, LU, NL, SE A1 19890324 FR 1987-12896 B1 19900907 A1 19950718 CA 1988-577078 A 19890318 DK 1988-5151 B1 19961111 A1 19890323 AU 1988-22362 B2 19910328 A2 19890427 JP 1988-232125 B4 19930702 A 19890530 ZA 1988-6932 A 19900403 US 1988-245446 E 19901215 AT 1988-402339 A1 19960130 CA 1991-616239 FR 1987-12896 CA 1988-577078

OTHER SOURCE(S):

MARPAT 111:115749

GI

Preparation of perindopril via acylation of perhydroindolecarboxylate with N-[(ethoxycarbonyl)butyl]alanine. The title compound (I), useful as an antihypertensive (no data), is prepared, e.g., via N-acylation of perhydroindole derivative II (preparation given) with (S,S)-HO2CCHMeNHCHPrCO2Et (III). II.p-MeC6H4SO3H (preparation given) was condensed with III in EtOAc containing Et3N, 1-hydroxybenzotriazole, and dicyclohexylcarbodiimide to give, after deprotection and treatment with Me3CNH2, I.Me3CNH2.

IT 107133-36-8P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, via acylation of perhydroindole derivative with
 N-[(ethoxycarbonyl)butyl]alanine)

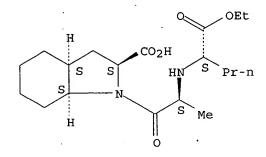
RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1.

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).



CM 2

CRN 75-64-9 CMF C4 H11 N

L17 ANSWER 76 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1989:477846 HCAPLUS

DOCUMENT NUMBER:

111:77846

TITLE:

Industrial preparation of (2S,3aS,7aS)-perhydroindole-2-carboxylic acid as intermediate for antihypertensive

perindopril

INVENTOR (S):

Vincent, Michel; Baliarda, Jean; Marchand, Bernard;

Remond, Georges

PATENT ASSIGNEE(S):

ADIR, Fr.

SOURCE:

Eur. Pat. Appl., 16 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 308339	A1	19890322	EP 1988-402337	19880916
EP 308339	. B1	19920506		
ם את ספי מנו	סם סם	ED GB GD	דתי דד. דון און כבי	

FR 2620703	A1	19890324	FR	1987-12900		19870917
FR 2620703	B1	19911004				
DK 8805149	A	19890318	DK	1988-5149		19880915
AU 8822361	A1	19890323	AU	1988-22361		19880916
AU 618752	B2	19920109				•
ZA 8806931	Α	19890530	ZA	1988-6931 ·		19880916
US 4935525	Α	19900619	US	1988-245352		19880916
• JP 02191251 .	A2	19900727	JP	1988-232123		19880916
AT 75735	E	19920515	AT	1988-402337		19880916
ES 2033450	T3	19930316	ES	1988-402337		19880916
US 4954640	Α	19900904	US	1990-462797		19900110
PRIORITY APPLN. INFO.:			FR	1987-12900	A	19870917
			EP	1988-402337	A	19880916
			US	1988-245352	A3	19880916

OTHER SOURCE(S):

CASREACT 111:77846; MARPAT 111:77846

GΙ

- AB The title compound (I), useful as an intermediate for antihypertensive perindopril, was prepared from indolecarboxylic acid derivs. II (R = H, lower alkyl). Esterification of II (R = H) in EtOH containing H2SO4, reduction with Sn in EtOH containing HCl, saponification, and resolution gave
- (S)-indoline-2carboxylic acid (III). Hydrogenation of III over Rh under H2 at 60° gave (2S,3aS,7aS)-octahydroindole-2-carboxylic acid.
- IT 107133-36-8

RL: RCT (Reactant); RACT (Reactant or reagent) (intermediate for, octahydroindolecarboxylic acid as)

- RN 107133-36-8 HCAPLUS
- CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0 CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CRN 75-64-9 CMF C4 H11 N

L17 ANSWER 77 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1989:204950 HCAPLUS

DOCUMENT NUMBER:

110:204950

TITLE:

Gas chromatography-mass spectrometry of perindopril and its active free metabolite, an angiotensin

convertase inhibitor: choice of derivatives and

ionization modes

AUTHOR (S):

Tsaconas, Christos; Devissaguet, Michele; Padieu,

Prudent

CORPORATE SOURCE:

Cent. Spectrom. Masse, Fac. Med., Dijon, F-21033, Fr.

SOURCE:

Journal of Chromatography (1989), 488(1), 249-65

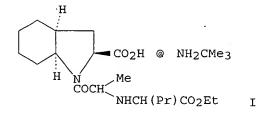
CODEN: JOCRAM; ISSN: 0021-9673

DOCUMENT TYPE:

LANGUAGE:

Journal

GI



Perindopril (I), a perhydroindole compound and a novel class of angiotensin convertase inhibitor, after oral administration leads to an active metabolite by de-esterification of the Et ester. Routine biol. measurements are currently done using a radioimmunol. assay, but a mass fragmento-graphic method was developed using plasma spiked with the drugs, which were then derivatized to the iso-Bu ester heptofluorobutyramide and assayed using ammonia neg. chemical ionization. Levels of 100 pg/mL were assayed. However, isobutanol derivatization provoked partial transesterification of the Et ester of the parent drug into the diisobutyl ester derivative, which corresponds to the active metabolite. A second method of derivatization to stable trimethylsilyl esters preserved the original Et ester of the parent drug. Despite the lower ionization yields, the mass fragmentog. method was sensitive and accurate enough to work satisfactorily at the 2 ng/mL level in spiked plasma, which is the level

found currently in patients.

IT 107133-36-8, S-9490-3

RL: ANT (Analyte); ANST (Analytical study)

(determination of, in blood plasma of humans by gas chromatog.-mass

spectrometry, derivatization and ionization modes for)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.

with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

L17 ANSWER 78 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1988:631529 HCAPLUS

DOCUMENT NUMBER:

109:231529

TITLE:

Synthesis of S9490-3 [U-14C-cyclohexyl]

1-[(2S)2-[(1S)1-(ethoxycarbonylbutyl)amino]-1-

oxopropyl] - (2S,3aS,7aS) -perhydroindole-2-carboxylic acid tert-butylamine salt and S9780 [U-14C-cyclohexyl] 1-[(2S)2-[(1S)1-(carboxybutyl)amino]-1-oxopropyl]-

2S,3aS,7aS)-perhydroindole-2-carboxylic acid and of [3,4-3H-butylamino]S9490-3 and [(3,4-3H-

)butylamino]S9780

AUTHOR (S):

Pichat, L.; Tostain, J.; Gomis, J. M.; Coppo, M.;

Moustier, A. M.; Vincent, M.; Remond, G.; Portevin,

B.; Laubie, M.

CORPORATE SOURCE:

CEN Saclay, Gif sur Yvette, 91191, Fr.

SOURCE:

Journal of Labelled Compounds and Radiopharmaceuticals

(1988), 25(5), 553-68 CODEN: JLCRD4; ISSN: 0362-4803

DOCUMENT TYPE: LANGUAGE:

Journal French

OTHER SOURCE(S):

CASREACT 109:231529

GΙ

The title 14C-labeled compds. I (\* signifies the uniform labeling of the AΒ cyclohexane ring with 14C) and II were prepared from aniline-U-14C in several steps. The title 3H-labeled compds. were also prepared The latter synthesis involved the tritiation of an allylglycine residue. The title compds. are potent inhibitors of angiotensin-converting enzyme.

117770-49-7P IT

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and saponification of)

RN117770-49-7 HCAPLUS

1H-Indole-2-carboxylic acid, 1-[2-[[1-(ethoxycarbonyl)butyl]amino]-1-CNoxopropyl]octahydro-, labeled with carbon-14, [2S- $[1[R*(R*)], 2\alpha, 3a\alpha, 7a\beta]]$ -, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM

CRN 117770-48-6 CMF C19 H32 N2 O5 CIL XC-14

Absolute stereochemistry. '

CRN 75-64-9 CMF C4 H11 N

$$^{\rm NH_2}_{\rm H_3C-C-CH_3}_{\rm CH_3}$$

IT 117770-59-9P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and tritiation of)

RN 117770-59-9 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)-3-butenyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN. 117770-58-8 CMF C19 H30 N2 O5

Absolute stereochemistry.

CRN 75-64-9 CMF C4 H11 N

L17 ANSWER 79 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1988:87332 HCAPLUS

DOCUMENT NUMBER:

108:87332

TITLE:

New convertase inhibitors

AUTHOR (S):

Wiecek, Andrzej; Grzeszczak, Wladyslaw

CORPORATE SOURCE:

Klin. Nefrol., Slaska Akad. Med., Katowice, 40-027,

Pol.

SOURCE:

Polskie Archiwum Medycyny Wewnetrznej (1986), 76(5-6

/11-12/), 291-7

CODEN: PAMWAL; ISSN: 0032-3772

DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

Polish

AB A review, with 27 refs., of inhibitors of angiotensin-converting enzyme, including MK 521, ramipril (Hoe 498), perindopril (S-9490-3), pivalopril (RHC 3659(S)), CI 906, CI 607, CGS 13945, CGS 13934, CGS 14824A, and L 681176.

IT **107133-36-8**, S-9490-3

RL: BIOL (Biological study)

(angiotensin-converting enzyme inhibition by)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-

(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd.
with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N

L17 ANSWER 80 OF 80 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

CORPORATE SOURCE:

1987:113304 HCAPLUS

DOCUMENT NUMBER: 106:113304

TITLE:

Perindopril, converting enzyme blockade, and peripheral arterial hemodynamics in the healthy

volunteer

AUTHOR (S):

Richer, C.; Thuillez, C.; Giudicelli, J. F. Serv. Pharmacol. Clin., Hop. Bicetre, Le

Kremlin-Bicetre, 94275, Fr.

SOURCE:

Journal of Cardiovascular Pharmacology (1987), 9(1),

94-102

CODEN: JCPCDT; ISSN: 0160-2446

DOCUMENT TYPE:

Journal LANGUAGE: English

COCH (Me) NHCH (Pr) CO2Et @ H2NCMe3

AB The effects of three doses (4, 8, and 16 mg) of perindopril tert-butylamine salt (I) [107133-36-8], a new angiotensin I converting enzyme [9015-82-1] inhibitor, on systemic blood pressure, heart rate, brachial and carotid artery flow and diameter (assessed by the pulsed Doppler technique), forearm vascular resistance, plasma converting enzyme and renin [9015-94-5] activities, and plasma aldosterone [52-39-1] were investigated in the normal volunteer and compared with those of a placebo over a 24-h period following oral drug intake in a double-blind, cross-over trial. I dose-dependently decreased plasma converting enzyme activity, an effect that peaked at 3-4 h and persisted up to at least 48 h. Plasma renin activity increased for 12 h and plasma aldosterone was slightly decreased. Systemic blood pressure and heart rate were not drug-affected but I dose-dependently augmented brachial and carotid artery flow, indicating an increase in peripheral arterial compliance. These vasodilating effects, which lasted up to 10 h after. drug intake, affected both large arteries and arterioles, the latter being more sensitive, however, and were more marked in the muscular resistance vessels.

IT 107133-36-8

RL: PRP (Properties)

(converting enzyme inhibition and cardiovascular effects of, in humans)

RN 107133-36-8 HCAPLUS

CN 1H-Indole-2-carboxylic acid, 1-[(2S)-2-[[(1S)-1-(ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-, (2S,3aS,7aS)-, compd. with 2-methyl-2-propanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 82834-16-0

CMF C19 H32 N2 O5

Absolute stereochemistry. Rotation (-).

CM 2

CRN 75-64-9 CMF C4 H11 N